Bids Close		See Eng. News-Record
Apr. 3	Flemington, N. J.	Mar. 13
	Adv. Mar. 13 and 20.	
Apr. 3	New York	Mar. 20
Apr. 4	New York	Mar. 20
Apr. 5	South Dakota	Mar. 20
Apr. 5	Tylertown, Miss.	Mar. 20
Apr. 7	Moulton, Ala.	Feb. 20
Apr. 7	Salem, N. J.	Mar. 13
	Adv. Mar. 13 and 20.	
Apr. 7	San Jose, Cal.	Mar. 20
Apr. 8	Mt. Vernon, Wash.	Mar. 20
Apr. 8	Indiana	Mar. 20
Apr. 9	Hackensack, N. J.	Mar. 13
	Adv. Mar 13 and 20.	
Apr. 9	New Jersey	Mar. 20
	Adv. Mar. 20.	
Apr. 9	Center, N. D.	Mar. 20
Apr. 10	Indiana	Mar. 20
Apr. 10	Middlebourne, W. Va.	Mar. 20
Apr. 11	Jamestown, N. D.	Mar. 20
Apr. 14	Johnson City, Tenn.	Mar. 20
Apr. 14	Tunica, Miss.	Mar. 20
Apr. 15	Billings, Mont.	Mar. 20
Apr. 15	Greenville, Miss.	Mar. 13
	Adv. Mar. 13 and Mar. 20.	
Apr. 15	St. Louis, Mo.	Mar. 20
Apr. 22	Spencer, W. Va.	Mar. 13

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Buffalo—Bd. Pub. Wks. plans to lay 15,000 ft. 6 in. water main throughout city, cost, $150,000; also install new equipment and alter pumping station on Massachusetts Ave., $150,000. A. W. Kreinheder, comr.

N. Y., Coxsackie—B. A. Deane, pres. water bd., soon receives bids building addition to waterworks system. About $38,000.

N. Y., Nassau—City plans election to vote on $5000 bonds to increase water supply.

Pa., McKeesport—City plans to issue $60,000 bonds to rehabilitate waterworks system. L. F. Savage, People's Bank Bldg., city engr.

W. Va., Benwood—S. G. Smith, Wheeling, receiver for Benwood & McMechon Water Co., receives bids about Apr. 1 for electrifying plant installing motors, etc., and laying 7700 ft. 4 and 6 in. water pipe. G. H. Davies, Harrisburg, Pa., and S. H. R. Hudson, Pittsburgh, Pa., engrs.

Ga., Atlanta—City voted $500,000 bonds to improve waterworks system, including pumps. H. L. Collier, city engr.

Miss., Senatobia—City plans to issue $15,000 bonds to build water-works and electric light plant.

O., Fremont—City plans to build filtration plant, cost $90,000; also deep well system, $52,000. G. W. Lesher, city engr.

Mich., Port Huron—City plans to lay 10-in. c.i. water main in Connor St. from St. Clair River to 32nd St. About $32,000. E. Whitmore, city engr.

Wis., Radisson—Wisconsin - Minnesota Light & Power Co., Eau Claire, had plans prepared by L. A. De Guere, engr., Grand Rapids, building reservoir here. About $500,000.

Kan., Council Grove—City plans election to vote on $67,000 bonds to purchase and improve water plant.

N. D., Underwood—City rejected bids building water-works system. C. Bauer, clk. Noted Feb. 27.

Tex., Waxahachie—City plans to sell $15,000 bonds May 13 for improving waterworks and sewerage systems. W. D. Hines, city secy.

Okla., Picher—City plans election to vote on $250,000 bonds for water-works and sewerage systems.

Okla., Sapulpa—City voted $75,000 bonds to improve waterworks system. Noted Feb. 27.

Okla., Tulsa—City rejected bids building 150 ft. rein.-con. stack, also installing boilers and 12,000,000 gal. pump and new water supply intake system. R. E. Cuvian, comr. waterworks. Noted Feb. 20.

Ariz., Phoenix—City plans election to vote on $800,000 bonds to build 40 mi. water pipe line from point on Verde River, also for large reservoir to provide gravity flow for city. L. B. Hitchcock, city engr.

Ore., Monmouth—City plans to build gravity water system.

Ore., The Dalles—Bd. Water Comrs. soon lets contract digging ditch and laying 21,000 ft. 14-in. wood pipe. J. A. Garron, city engr.

Cal., Blythe—City plans election in April to vote on $35,000 bonds to build waterworks system.

Cal., Glendale—City having plans prepared by H. B. Lynch, engr., 716 Central Bldg., Los Angeles, for extensions to water system and power plant. Plans include extensions to distributing system, large storage reservoir, settling basin, pumping plant, wells, trunk lines between pumping plant and reservoir and between reservoir and main on Glendale Ave., electric generating plant at reservoir, etc. Bonds must be voted and shares purchased in Verdugo Canyon Water Supply Co. J. C. Sherer, city clk.

Cal., Independence—Bd. Pub. Serv., Los Angeles, entered into contract with Big Pine Water Users Assn., Inyo Co., whereby city acquires 2 reservoir sites and sites for 3 power plants. (Construction will not be undertaken for some time.) Association will build concrete waterways down Big Pine Canyon and across reservoir sites; city to furnish $45,000 for cement and other materials. W. Mulholland, 654 South Olive St., ch. engr.

Cal., Olidale—Bd. Supervs. Kern Co. authorized A. E. Stegeman, co. surv. to take charge of installation of water system for Kern Co. Water Wks. Dist. No. 1. Plans include drilling wells, installing water mains, buildings, laterals, making provision for fire protection and for domestic and irrigation uses. Bonds for $20,000 voted for project. Noted Dec. 19.

Ont., New Toronto—City having plans prepared by James, Loudon & Hertzberg, engrs., Excelsior Life Bldg., Toronto, supplying and laying 1100 ft. 24 in. riveted steel intake. About $35,000.

BIDS DESIRED

Mo., Kansas City—Until Apr. 16, by J. R. Samuel, purchasing agt., for building and completing 15,000,000 gal. storage basin at Wabash and St. John Aves. W. G. Goodwin, ch. engr.; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**R. I., East Providence** (Providence P. O.)—Amer. Electrical Wks. let contract building 1 story, 20 x 25 ft. brick, steel and rein.-con. pump house, concrete foundation and 30 in. x 310 ft. rein.-con. intake pipe, to Wilmarth Mackillop, Inc., Freeman St., Pawtucket. About $30,000.

★**O., Akron**—City let contract furnishing turbine driven centrifugal pumps, (contract No. 120), to Westinghouse Electric & Mfg. Co., 6905 Susquehanna St., Pittsburgh, Pa.; improving water-works system, (contract No. 133), to A. P. Smith Mfg., Norman St., East Orange, N. J. About $4524.

★**Kan., Baxter Springs**—City let contract furnishing and erecting machinery and pumping equipment for one or more units, to Fairbanks Morris & United Iron Wks.; erecting tower and tank of 100,000 gal. capacity, not more than 125 ft. high, to Chicago Bridge & Iron Wks., 105th and Throop Sts., Chicago, total cost $10,100; constructing power house, oil house and concrete work, to Ray & Son, $22,369. Noted Mar. 6.

Sewers

PROPOSED WORK

N. Y., Watertown—City having surveys made and plans prepared by E. W. Sayles, city engr., for sewage disposal plant in 8th ward.

N. J., North Bergen—City having plans prepared by P. A. Daly, engr., 34th St., installing and connecting trunk line sewer in Fisher Ave. About $15,000.

Ky., Bridgeport—City plans to build sewers in Wood and Hillside Aves., cost $15,000; Island Brook Ave. and River St., $25,000; combined sewer in East Washington Ave., $6300; Spring St., $25,000; storm sewer in Railroad Court extension, $18,000; sanitary intercepting sewer in Bay St., $17,000. J. B. McElroy, city engr.

O., Findlay—State Bd. of Health, Columbus, has ordered city to build sewage treatment plant. U. K. Stringfellow, city engr.

Wis., Manitowoc—Bd. Pub. Wks. receives bids in April building sewers in 27 streets. L. K. Pitz, city engr.

Ia., Iowa City—City soon lets contract building West Side Intercepting Sewer, involving 15,000 ft. 8-15 in. pipe, cost, $25,000; Black Springs extension to sewer on west side, $25,000; also paving 1000 yd. under Rock Island tracks, $3000. S. M. Hands, city engr. Noted Feb. 20.

N. D., Underwood—Village rejected bids building sewerage system in Dist. No. 1. C. Bauer, clk. Noted Feb. 27.

Mont., Whitefish—City receives bids about Apr. 21, building 7000 ft. 4-8-12 in. vitr. and tile sewer in Lakeside Dist. Work involves earth trenching, 3-23 ft. deep, small septic tank, etc. About $23,785. W. K. Trippet, engr.

Ark., Forrest City—City soon lets contract building 2½ mi. storm sewers, manholes and catch basins. Lund & Hill, 527 Southern Trust Bldg., Little Rock, engrs.

Tex., Waxahachie—See "Waterworks."

Okla., Picher—See "Waterworks."

Idaho, Moscow—City plans to build 1 mi. sewers. Cost between $60,000 and $80,000. H. J. Smith, city engr.

Wash., Yakima—City plans election to vote on $300,000 bonds to build complete trunk line sewerage system.

Cal., Los Angeles—Bd. Pub. Wks. soon receives bids building cement on vitr. clay pipe sewers, brick manholes, junction chambers, etc., in Bairdstown Sewer Dist. About $150,000. W. T. Knowlton, city engr.

Ont., Orillia—City receives bids in April supplying and laying 9,600 ft. 8-24 in. vitr. sewers in Front, King, Mississauga, Neywash and Coldwater Sts. About $20,000. James, Loudon & Hertzberg, Excelsior Life Bldg., Toronto, engrs.

BIDS DESIRED

R. I., Central Falls (Pawtucket P. O.)—Until Mar. 31, by city, laying 8-18 in. pipe in Hunt St., ¾ mi. straight and ¾ mi. with connections. City will furnish pipe; contractor to furnish cement and brick. About $25,000.

N. Y., Brooklyn—Until Mar. 26, by E. Riegelmann, boro. pres., building sewer in Ave. M from West St. to Ocean Parkway, East 3rd St. from Ave. M to point 320 ft. northerly, East 4th St., from Ave. M to point 320 ft. northerly, East 5th St. from Ave. M northerly 480 ft., Ocean Parkway, west side, from Ave. M to point 300 ft. northerly, outlet sewer crossing West St. from Ave. M to 23rd Ave., 23rd Ave. from West to 60th Sts., cost, $39,924; 60th St. from 23rd Ave. to Bay Parkway, 59th St. from 20th Ave. to 21st Ave. and outlet sewer in 21st Ave. from 59th to 60th Sts., $5045.

N. Y., New York—Until Mar. 24, by M. E. Connolly, pres. Queens Boro., building sewers in Grand St. from Willow Ave. to Columbia Pl., Columbia Pl. from Grand St. to Brown Pl., Ralph St. from Fresh Pond Rd. to Traffic St., Traffic St. from Ralph St. to Grove St., Tompkins Pl. from Central to Edsall Aves., 91st St. from Jamaica Ave. to Ashland St., Willard Ave. from Jamaica Ave. to Ashland St., Oakland St. from Kaiser St. to Manor Ave., Brandon Ave. from Woodhaven to Willard Aves., Elmwood St. from 91st St. to Willard Ave., Avondale St. from 91st St. to Willard Ave., Ashland St. from Woodhaven to Willard Aves., Manor Ave. from Ashland St. to point 175 ft. northerly, Syosset St. from Woodhaven to Bigelow Aves., Atlantic Ave. from Rockaway Blvd. to Bigelow Ave., Yarmouth St. from Atlantic Ave. to Syosset St., temporary open drain in Genesee St. from South Conduit to Wortman Aves., etc.

N. J., Kearney—Until Mar. 25, by town laying 12 in. pipe in Ivory St. from borough line to Boyds Farm; and 500 ft. blind drain in Kearney Ave. About $15,000.

Pa., New Essington (Eddystone P. O.) See "Streets & Roads."

Md., Hagerstown—Until Mar. 30, by Sewerage Comn., building intercepting storm and sanitary sewers in various streets and alleys. Work includes 2800 lin. ft. each of 18 in. sanitary and 66 in. storm water sewers with manholes, inlets, foundations, etc., both largely in tunnel. W. Wingert, chn.; advertised in this issue.

O., Youngstown—Until Mar. 25, by J. W. Kuhus, dir. pub. serv., building 3000 ft. 15 and 18 in. sewer in Parkview Ave. and 6600 ft. 15-24 in. sewers in Sugar Creek Sewer Dist.; also in Irving Pl., Tod Ave., Grandview Ave., Hunter St. and Hilton Ave. Cost $12,000, $33,000 and $25,000 respectively. F. M. Lillie, city engr.

Sewers (Continued)

Ill., Chicago—Until Mar. 28 by Bd. Local Impvts., building sewers from north branch of Chicago River to west line of block 1, Elstons Addition to Elston Ave., Augusta St. to California Ave.; Noble St. from Augusta to Kinzie Sts., North Leavitt St. from North Ave. to Kinzie St. Work involves 2210 ft. rein.-con. sewers, 21,340 ft. brick sewers, 8000 cu.yd. excav., removing old work and making connections, building concrete bulkhead and pile foundations, etc. Total cost, about $535,000. J. Ericson, city engr.

Mont., Great Falls—Until Apr. 1, by city, building storm sewer in 4th Ave. S., from 14th St. to Missouri River, 3rd St. from 2nd Alley N. to 4th Ave. S., and 7th St. from 2nd Ave. S. to 4th Ave. S. Work involves 36,000 cu.yd. excav.; 1670 lin.ft. monolithic section double barrel concrete sewer; 8505 lin.ft. 8-66 in. pipe; 6000 lin. ft. 10 in. sub-drain; 25 manholes; 46 inlets; rebuilding 1020 sq.yd. block pavement and 135 sq.yd. bitulithic pavement, 100 cu.yd. extra concrete; 5000 ft. B. M. lumber and 100 cu.yd. gravel fill. About $235,000. L. B. Evenson, city engr. Noted Feb. 6.

Sask., Sutherland—Until Apr. 9, by town, building 5885 ft. 6-18 in. sewers, 23 manholes and 4 catch basins. Murphy & Underwood, Saskatoon, consultg. engrs.

PRICES AND CONTFACTS AWARD

(★Indicates award of contract)

N. Y., New York—S. H. Bruckner, pres. Bronx Boro., received bids building sewers in Birchall Ave. between Sagamore St. and White Plains Rd., Van Courtlandt Park, S., between Exterior Pl. and Orloff Ave., Bailey Ave. between Van Courtlandt Park S. and Sedgwick Ave., East. 180th St. from 3rd to Monterey Aves., from McLaughlin & Buckley, Bronx, type B, $66,826; Boniface Constr. Co., New York City, type A, $66,668. Noted Mar. 13.

O., Cleveland—City received low bids building sewers in

(a) St. Mark Ave., involving 1080 ft. 12, 15 and 20 in. vitr. pipe.;

(b) Linndale Ave., 1080 ft. 12, 15 and 20 in. vitr. pipe;

(c) Mullberry Ave., 280 ft. 12 in. and 18 in. pipe;

(d) Winslow Ave., 370 ft. 12, 15 and 18 in. vitr. pipe;

(e) West 110th St., 640 ft. 12, 20 and 24 in. vitr. pipe; 380 ft. No. 3 brick and 850 ft. No. 4 brick pipe;

(f) Governor Ave., 710 ft. 12, 15 and 20 in. vitr. pipe;

(g) West 117th St., 420 ft. 12, 20 and 24 in. vitr. pipe, 510 ft. No. 2 C, 810 ft. No. 4 C and 810 ft. No. 5 C brick pipe;

(h) Washington Ave., 600 ft. 12 in. vitr. pipe;

(i) Bosworth Rd., 1440 ft. 12, 15 and 18 in. vitr. pipe;

(j) Fortune Ave., 1110 ft. 12, 15 and 20 in. pipe;

(k) Severn Ave., 1210 ft. 12 and 15 in. vitr. pipe;

(l) Clarence Ave., 2275 ft. 12, 15 and 18 in. vitr. pipe;

(m) St. Olga Ave., 710 ft. 12, 15 and 18 in. vitr. pipe;

(n) Clyde Ave., 550 ft. 12 in. vitr. pipe;

(o) St. Tichan St., 880 ft. 12 and 18 in. vitr. pipe;

(p) East 143rd St., 3430 ft. 6 in. vitr. pipe;

(q) East 24th St. from Superior to St. Clair Aves., from

N. Iafornaro, 3218 Murray Hill Rd., (a) $3183; (e) $18,053; (f)) $2326; (j) $3157; (l) $5362; (n) $1533.

H. Hahn, 2973 East 78th St., (a) $3194; (b) $3123; (f) $2226; (i) $4697; (j) $3249.

Brookside Constr. Co., 3905 West 20th St., (a) $3348; (b) $3254; (j) $3485.

Amata Constr. Co., 343 Arcade, (b) $3116; (e) $19,763; (f) $2305; (q) $16,282.

G. Sam, 2418 Central Ave., (c) $1127; (d) $1582; (h) $2712; (m) $1967; (n) $1520; (o) $2092.

Joseph & Kalill, 1200 Bolivar Rd., (c) $1257; (d) $1662; (h) $2208; (l) $5261; (m) $1945; (n) $1439.

W. P. Gibbons, 340 Leader-News Bldg., (c) $1534; (d) $2022; (h) $2675; (k) $2632.

Randall & Cooper, Lorain, (e) $19,261.

A. Marra, Park Bldg., (g) $14,984.

Manson & Co., 343 Arcade, (g) $16,649.

P. Ciraci, 11811 Browning Ave., (g) $16,956; (l) $5731.

M. Yahya, 3539 Independence Rd., (k) $2297.

Fredericks & Hossaine, 635 Bradley Court, (k) $2675; (l) $5138; (m) $1959.

S. Gardio, (o) $1978.

N. Salem, 237 Bradley Court, (o) $2207.

Gallagher-Burke Co., 1339 Irene Ave., (p) $45,890; (q) $16,230.

River Constr. Co., 12109 Mayfield Rd., (p) $48,923.

Gawne Constr. Co., 10510 Euclid Ave., (p) $49,287; (q) $15,049.

Iannatta Bros., 2064 East 125th St., (i) $4400.

★**Ind., Terre Haute**—City let contract laying sewer pipe in Poplar St., to P. O. Leary. About $18,000. Noted Mar. 13.

Mich., Detroit—Bd. Pub. Wks. received bids building sewers in Erwin, Burns and Peter Hunt Aves. from Harper to Edgewood Aves., from R. D. Baker, 1454 Penobscot Bldg., $41,711; J. M. Affeld, Ford Bldg., $54,949; J. Wagner, Penobscot Bldg., $63,598; in Dexter Blvd. from Joy Rd. to Davison Ave., from W. Porath, 1410 West Grand Blvd., $136,539; Jeynes & Affeld, Ford Bldg., $139,979; J. A. Mercier, 216 Hammond Bldg., $144,508. Noted Feb. 27.

Cal., Seal Beach—City received only bid installing sewers in various streets, from Miagenovich & Gillespie, 219 Bloom St., Los Angeles, as follows: 23,500 lin.ft. 6 in. pipe, $0.47 per lin.ft., 11,500 lin.ft. 8 in. pipe, $0.67 per ft., 1535 lin.ft. 10 in. pipe, $0.75 per lin.ft., 310 lin.ft. 14 in. pipe, $1.00 per lin.ft., 1040 lin.ft. 16 in. pipe, $1.10 per lin. ft., 1070 lin.ft. 18 in. pipe, $1.25 per lin.ft., 76 manholes, $50 each, 20 x 24 ft. rein.-con. Imhoff septic tank, $6500; pumping plant consisting of rotary pump and electric motor with automatic control and two auxiliary booster pumps, $11,000. Total cost, $42,000. Noted Feb. 20.

Bridges

PROPOSED WORK

Conn., Middletown—City having plans prepared by State Highway Comn., Hartford, building memorial bridge on Main St. extension. About $150,000. C. A. Campbell, city engr.

N. J., Jersey City—Hudson Co. Blvd. Comn. having plans prepared for repairing bridge over Morris Canal. About $10,500. Work involves removing old iron and replacing new iron, concrete and 2 coats of painting.

Pa., Bethlehem—City had plans prepared by C. Hudson, engr., 21 Park Row, New York City, building 1 mi. rein.-con. and steel bridge, 64 ft. wide, between here and South Bethlehem. About $2,000,000. Noted Aug. 29.

W. Va., Lewisburg—See "Streets and Roads."

Ala., Huntsville—See "Streets and Roads."

Wis., Appleton—City plans election in April to vote on $80,000 bonds to build bridge on Lowe St. and $190,000 bonds for one on Cherry St., probably rein.-con.; total length, 608 ft. O. F. Weissberg, city engr.

Wis., Shawano—Comrs. Shawano Co. plan to build 25 rein.-con. bridges. About $1000 each.

Wis., Sheboygan—City having plans prepared for 67 ft. steel bridge with concrete approaches on 8th St. About $60,000. C. U. Boley, city engr.

Ia., Des Moines—City soon lets contract building 7 span, rein.-con. arch bridge, 42 ft. wide over river on 18th St. About $300,000. D. E. Johnson, bridge engr. Noted Dec. 12.

Minn., Long Prairie—Comrs. Todd Co. plan to build 4 rein.-con. and steel bridges, 1 to have 70 ft. span. About $15,000. E. M. Berg, co. aud.

Mont., Billings—Comrs. Yellowstone Co. will sell $75,000 bonds Mar. 31, to build Huntley Bridge and $25,000 bonds for South Bridge. C. E. Durland, co. engr.

Mo., Kansas City—Holmes St. Import Assn., temporary organization, plans to build viaduct over terminal railway tracks on Holmes St. and regrading street from viaduct to 23rd St. T. Carroll, chn.

Tex., Bellinger—Runnels Co. having plans prepared by Hess & Skinner, engrs., South West Life Bldg., Dallas, building bridge 524 ft. long, 20 ft. wide, with 4 ft. walk, over Colorado River. About $48,000.

Tex., Denison—Grayson Co., (Sherman) and Marshall Co., (Madill) Okla., plan to build steel bridge over Red River, near here on Preston Rd. About $100,000.

Okla., Madill—See Denison, Tex.

Ariz., Kingman—State Legislature, Phoenix, appropriated $40,000 to build bridge over Colorado River providing Mohave Co. appropriates like amount. E. M. Atwood, state engr.

Cal., Eureka—Bd. Supervs. Humboldt Co. receives bids about May 1, building 240 ft. girder span rein.-con. bridge over Salt River near Pt. Kenyon. H. Brunnier, Sharon Bldg., San Francisco, engr.

Cal., Los Angeles—Bd. Supervs. Los Angeles Co., soon receives bids building steel bridge over flood diversion channel and railway tracks near Long Beach. About $125,000. J. W. Reagan, co. engr.

Ont., Barrie—Simcoe Co. having plans prepared for 3 bridges. About $17,000. R. J. Fletcher, co. clk.

B. C., Victoria—City, Provincial Government and Esquimalt & Nanaimo Ry. having plans prepared for steel bascule bridge with concrete approaches on Johnson St. F. M. Preston, city engr.

BIDS DESIRED

N. Y., Kingston—Until Apr. 22, by E. Duffy, state highway comn., 55 Lancaster St., Albany, building bridge consisting of two steel arches, each 320 ft. long, two rein.-con. approaches and retaining walls, one 1300 ft. macadam approach, etc., to carry Rd. No. 5599 over Rondout Creek. Work involves 960 tons structural steel, 270,000 lb. metal reinforcements, 14,030 bbl. Portland cement, 2100 cu.yd. first class, 5490 cu.yd. second class and 1530 cu.yd. third class concrete, etc.

Va., Copper Valley—Until Apr. 15, by G. P. Coleman, comr. state highway dept., Capitol, Richmond, building steel bridge 86 ft. long over Indian River near here.

Va., Rawlins—Until Apr. 7, by G. P. Coleman, comr. state highway dept., Capitol, Richmond, building steel truss superstructure of bridge 84 ft. long over Waqua Creek near here.

Va., Stella—Until Apr. 7, by G. P. Coleman, comr. state highway dept., Capitol, Richmond, building steel bridge 94 ft. long at Mayo Forge, 3 mi. from here.

W. Va., Lewisburg—Until Apr. 8, by Comrs. Greenbrier Co. building bridge across Culberson Creek in Williamsburg Dist. Alternate plans prepared by the contractors, will be accepted, as well as bids based on plans and specifications supplied by the court, and in both cases plans and bids will be submitted covering (1) bridge of 2 spans, 30 ft. each, 12 ft. roadway; (2) 1 span, 50 ft., 12 ft. roadway. F. K. Rader, co. rd. engr., advertised in this issue.

Ill., Taylorville—Until Mar. 22, by Christian Co., building Pasfield Bridge, 60 ft. rein.-con girder span, 16 ft. roadway, 14 ft. high, involving 98 cu.yd. concrete and 24,340 lbs. reinforcing steel in superstructure, 62 cu.yd. concrete and 3530 lbs. reinforcing steel in 2 abutments. W. L. Hawk, South Fork, comr. highways.

Ia., Ft. Dodge—Until Apr. 1 by city, building rein.-con. bridge over Des Moines River, between North 1st and 2nd Sts., N. W. W. L. Tank, city clk. Noted Feb. 20.

Mont., Roundup—Until Mar. 24, by Comrs. Musselshell Co., building 25 pile bridges, various lengths. R. E. Bushnell, engr.

Wash., Adna—Until Apr. 7, by Comrs. Lewis Co., (Chehallis), building 220 ft. steel span bridge with 500 ft. approach, 16 ft. wide, and changing grade of road near here. About $20,000. E. C. Bechly, co. engr.

Que., St. Remi—Until Mar. 28, by city, building concrete bridge with iron fenders, 16 ft. wide. About $15,000. J. A. Collette, St. Remi, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. Y., Rochester**—New York Central R.R., Grand Central Terminal, New York City, let contract building bridge over tracks on Main St., E., to Terry & Tench, Grand Central Terminal, New York City.

★**Ariz., Douglas**—Comrs. Cochise Co. let contract building concrete bridge over Silver Creek, 13 mi. east of here, to El Paso Bridge & Iron Co., 517 El Paso & South Western Bldg., El Paso, Tex.; bridges and culverts on Sect. 1, Douglas-East Rds., to Chiado & Correll, Warren; bridges on Pearce-Servoss-Cochise highway, to J. B. Smith, Lowell; grading and surfacing Pearce-Servoss-Cochise highway, to McKay & Reddin, Johnson. Noted Feb. 6.

Structural Steel

PROPOSED WORK

Pa., Bethlehem—See "Bridges."
Wis., Sheboygan—See "Bridges."
Tex., Denison—See "Bridges."
Cal., Los Angeles—See "Bridges."
B. C. Victoria—See "Bridges."

Reinforced Concrete

PROPOSED WORK

N. Y., Carthage—See "Buildings."
Pa., Bethlehem—See "Bridges."
Pa., Phila.—See "Industrial Works."
Wis., Shawano—See "Bridges."
Minn., Long Prairie—See "Bridges."
Cal., Eureka—See "Bridges."
Cal., Fresno—See "Buildings."
Cal., Redondo Beach—See "Miscellaneous."
Cal., San Francisco—See "Industrial Works."

BIDS DESIRED

Que., St. Remi—See "Bridges."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Ala., Mobile**—See "Industrial Works."
★**Tex., De Leon**—See "Buildings."
★**Ore., Portland**—See "Industrial Works."

Railways

PROPOSED WORK

Massachusetts—See "Industrial Works."

New York—International Ry Co., Ellicott Sq., Buffalo, plans to raise and extend tracks in Bailey Ave. between Bway. and Genesee Sts. About $1,550,000 will be expended for project. G. W. Wilson, Buffalo, secy.

Ohio—Mahoning Shenango Ry. & Light Co., Boardman and Champion Sts., Youngstown, having preliminary plans prepared for 4 crossover special pieces of track, on Wick and Wilson Aves., Market and West Federal Sts., in Youngstown. About $19,000. J. B. Stewart, ch. engr.

Ohio—Millersburg Traction Co., Millersburg, plans tobuild new car line from Millersburg to Dover.

North Dakota—Capital Street Ry., Bismarck, plans to extend line to Minneapolis, St. Paul & Sault Ste. Marie R.R. and capital grounds.

Missouri—Charleston Commercial Club, Charleston, is back of project to form corporation to build and operate railroad between Charleston, Mo., and Hickman, Ky. About $250,000.

Oregon—Portland & Oregon City Ry., 654 Cypress St., Portland, plans to build 18 mi. line eastward from Oregon City through timber belt. F. M. Carr, mgr.

Ontario—Toronto Ry., 92 King St., East Toronto, having plans prepared building about 3½ mi. tracks. City appropriated $580,000 toward cost and balance of $220,000 will be paid by railway. F. G. Clark, 12 Adelaide St., Toronto, ch. engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Missouri**—United Rys., 39th and Park Aves., St. Louis, will lay tracks and improve streets, granite dressed blocks and concrete. About $700,000. Work will be done by day labor.

Excavation and Dredging

PROPOSED WORK

Miss., Stiles—Ditch—Comrs. 1st D. D. Stiles and Lena Twps., at Court House, Oconto, rejected bids building 15 mi. open ditch. G. S. Hales, Port Washington, engr. Noted Feb. 6.

Minn., Fairmont—Ditch—Comrs. Martin Co. rejected bids building Judicial Ditch No. 82. H. W. Jones, Windom, engr. Noted Feb. 20.

Cal., Bakersfield—Irrigation—Kern Delta Irrigation Dist. being organized to acquire and supply water for irrigation system to cover 640,329 acres in Kern River Delta Dist. A. Hancock, Fairfax, chn.

Cal., Los Angeles—Irrigation—Bd. Pub. Serv. Comn. organizing district in portion San Fernando Valley to vote on $500,000 bonds to build mains for bringing water from Los Angeles acqueduct for irrigation and domestic purposes in Hansen Heights and Tajunga Sections. W. Mulholland, 645 South Olive St., ch. engr.

BIDS DESIRED

N. J., North Bergen—Excavation—Until Mar. 27, by Bd. Educ. for all earth and rock excavation for school building No. 3. About $10,000.

O., Cleveland—Excavation—Until Mar. 31, by Comrs. Cuyahoga Co., for excavating and building draining sewers for proposed jail on West 3rd St. and Lakeside Ave., to cost $1,500,000. W. S. Lougee, 500 Marshall Bldg., archt. Noted Feb. 21, 1918.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. J., Jersey City**—Ditches—Mosquito Extermination Comn. of Hudson Co. let contract for 100,000 ft. of drainage ditches on salt marsh meadows beginning at Bergen Co. line and extending along either side of Hackensack River to Kill von Kull to J. D. Manahan, Red Bank, at $0.75 per lin.ft. Noted Mar. 13.

★**S. C., York**—Ditch—Comrs. Turkey Creek D. D. let contract dredging 26 mi. ditches in York and Chester Counties, involving 861,860 cu. yd. excav., to Sigmunds & Rhinehart, York. Noted Feb. 6.

★**Ia., Garner**—Drainage—Comrs. Hancock Co. (Garner) and Kossuth Co. (Algona) let contract for tile for improving Hancock-Kossuth Joint D. D. No. 5-87, to A. N. Gjellefald, Forest City; open work, to I. O. Florence & Co., Thompson. Noted Feb. 20.

★**Minn., Marshall**—Ditch—Comrs. Lyon Co. let contract building Judicial Ditch No. 20, to T. Jensen, Slayton, $149,300; Co. Ditch No. 43, to Marshall Concrete Tile Co., Marshall, $34,976.

★**Minn., Windom**—Cottonwood Co. let contract building Ditch No. 11, to Rude & Wold, Windom. About $14,959.

Industrial Works

PROPOSED WORK

Mass., Cambridge (Boston P. O.)—W. H. Taylor & Son, archts., 50 Bromfield St., Boston, receives bids in April building 2 story, 90 x 240 ft. brick and concrete factory, rein.-con. flooring and concrete foundation on Aberdeen Ave. here, for Atwood & McManus, Vale St., Chelsea. About $110,000.

Mass., Chelsea (Boston P. O.)—Winnisimmet Shipyard, Inc., Winnisimmet St., having plans prepared for remodeling present building and building machine shop, blacksmith shop, drydock and marine railway on Winnisimmet Wharf and Division St.

Mass., Springfield—United Mfg. Co., 57 Willow St., soon receives bids building 1 story brick and concrete factory and radial brick stack, rein.-con. flooring and concrete foundation on Birnie Ave., About $35,000. H. L. Sprague, 310 Main St., archt.

Mass., Worcester—Morgan Spring Co., West Boylston St., plans to build 1 story, 41 x 80 ft. concrete addition to plant.

R. I., Elmwood—(Providence P. O.)—Providence Body Co., 32 Eagle St., Providence, receives bids about Mar. 25, building 1 story, 80 x 300 ft. mill construction factory, and 1 story 30 x 30 ft. brick office on Elmwood Ave. here. About $55,000. Noted Feb. 6.

R. I., Pawtucket—Arbeka Webbing Co., Central Ave., purchased 4½ acre site adjoining present plant and plans to construct new buildings.

N. Y., Brooklyn—J. Bene & Sons, 641 Dean St., had revised plans prepared by M. Freehof, archt., 405 Lexington Ave., New York City, for 1 story, 100 x 100 ft., brick and steel factory, rein.-con. flooring, concrete foundation, on Clinton Ave. near Fulton St. About $35,000. Noted Dec. 19.

N. Y., Brooklyn—Cohn Bros., archts., 361 Stone Ave., receive bids about Mar. 26, building 1 story, 100 x 150 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on Pitkin Ave. and Hinsdale St., for H. Fein, 626 Essex St. About $40,000.

N. Y., Brooklyn—F. Savignano, archts., 6004 14th Ave., preparing plans for 1-story, 66 x 100 ft., brick and steel foundry, rein.-con. flooring, concrete foundation, on 60th St. and 12th Ave. About $25,000. Owner's name withheld.

N. Y., Buffalo—Bd. Pub. Wks. plans to build barn on Maryland, Hudson and 4th Sts. About $80,000. A. W. Kreinhede comr.

N. Y., Johnstown—Adams & Co. having plans prepared for 2 story, 145 x 180 ft. leather mill. About $65,000.

N. Y., Long Island City—A. Cohen, 212 5th Ave., New York City, had plans prepared by D. Seabury, archt., 12 East Ave., Pawtucket, R. I., for 3 story, 73 x 193 ft., brick mill, rein.-con. flooring, concrete foundation, at William and Freeman Sts. here. About $60,000.

N. Y., New York—J. Goldstein, c/o J. Fisher, archt., 25 Ave. A, soon receives bids building 2 story, 70 x 154 ft., brick and concrete storage building, rein.-con. flooring, concrete foundation, on East 3rd and Tompkins Sts. About $75,000.

N. Y., New York—Industrial School, 418-420 West 41st St., having plans prepared by G. M. McCabe, archt., 96 5th Ave., for 2 story, 50 x 99 ft., rein.-con. and brick garage, rein.-con. flooring, concrete foundation. About $50,000.

N. Y., Niagara—Union Carbide Co., Union St., plans to build electric switching station. About $45,000.

N. Y., Rochester—Beechnut Packing Co., Canajoharie, plans to build 2 story, 120 x 180 ft., rein.-con. addition to plant on Main St., E. About $70,000.

N. Y., Syracuse—Sun Oil Co., 244 West Jefferson St., plans to build barrel plant on Sunset Ave. and Turtle St. About $60,000. C. E. Brown, mgr.

N. J., Camden—W. H. Dollar Mfg. Co., 312 North Front St., having plans prepared by C. P. Berger, archt., 1416 South Penn Sq., Phila., building 3 story, 53 x 70 ft., brick and concrete factory on North Front St. About $30,000.

N. J., Newark—F. Homs, 940 South 19th St., plans to build 6 story, 22 x 69 ft. factory and office at 107 Mulberry St. Cost between $50,000 and $60,000.

Pa., Phila.—J. J. Felin Co., Inc., 4148 Germantown Ave., soon lets contract building 3 story, 40 x 89 ft., brick and steel packing plant, rein.-con. flooring, concrete foundation, at 4142 Germantown Ave. About $70,000. C. B. Comstock, 110 West 40th St., New York City, archt. Noted Mar. 13.

Pa., Phila.—Gold Medal Bakery Co., 1211 Commonwealth Bldg., plans to build 2 story, 50 x 50 ft., brick and timber factory, concrete and wood floors, concrete foundation, on 3rd St. and Washington Ave. About $30,000. R. Beard, 1211 Commonwealth Bldg., archt.

Pa., Phila.—Loose-Wiles Biscuit Co., 23rd and Arch Sts., plans to build 2 story, 80 x 191 ft., rein.-con., concrete, brick and timber warehouse, rein.-con. flooring, concrete foundation, on 2nd and Poplar Sts. About $65,000. R. Beard, 1211 Commonwealth Bldg., archt.

Pa., Phila.—P. M. Sax, engr., Franklin Bank Bldg., preparing plans for 12 story, 43 x 80 ft., concrete, steel and brick factory, rein.-con. flooring, at 1220-24 Sansom St. Owner's name withheld.

Del., Wilmington—Standard Kid Mfg. Co., 4th and Monroe Sts., having plans prepared by J. J. Kennedy, archt., 925 Market St., for 1 story, 40 x 60 ft., power plant. About $25,000.

Md., Sollers Station (Sollers P. O.)—Aluminum Ore Products Co., Inc., 800 Maryland Trust Bldg., Baltimore, having plans prepared for plant to cost $8,000,000. Project includes one 4 story, two 3 story, two 2 story and seven 1 story buildings for storage room, machine and forge shops, boiler house, etc., all 75 x 400 ft., steel and brick; also open wood pier with creosoted wood piles. J. E. Aldred, chn. bd. dirs., Consolidated Gas, Electric Light & Power Co., Baltimore, interested.

S. C., McColl—Marlboro Cotton Mills plans to build 1 story, 100 x 300 ft. mill construction plant. Robert & Co., 321 Candler Bldg., Atlanta, Ga., engrs.

O., Cleveland—J. L. Free Co., 1004 Prospect Ave., plans to build brick, steel and rein.-con. garage, rein.-con. flooring and concrete foundation on East 9th St. and Bolivar Rd. About $100,000. M. Dunning, 304 South Wabash Ave., Chicago, Ill., archt.

Industrial Works (Continued)

O., Cleveland—J. W. Smith, 10585 Quincy Ave., plans to build 2 story, 48 x 81 ft. brick, steel and concrete factory, rein.-con. flooring and concrete foundation, at 10611 Quincy Ave. About $25,000.

O., Toledo—Banting Mfg. Co., Dorr St. and Cavalry Cemetery, having plans prepared by H. H. Neff, archt., R. F. D. No. 9, building 3 story, 56 x 120 ft., brick, steel and concrete mill, concrete foundation, on Dorr St. About $30,000.

O., Toledo—Standard Oil Co. of Ohio, Gas Bldg., purchased site of 810 acres north east of city and having plans prepared building 24 crude oil stills, 12 running stills, 80 pressure stills, and from 12 to 24 other stills, steel storage tanks, warehouses and railroad tracks and yards. Cost between $4,000,000 and $5,000,000.

O., Youngstown—Thornton Laundry Co., 85 Thornton Ave., plans to build 2-story, 54 x 75 ft. laundry on Belmont Ave. About $25,000. Stanley & Schiebel, Wick Bldg., archts.

Mich., Detroit—Burkhardt Bldg. Co., 400 Penobscot Bldg., had plans prepared by R. W. Koch, archt., 306 South State St., Ann Arbor, building 5 story, 75 x 75 ft., brick and rein.-con. factory, rein.-con. flooring and concrete foundation on 2nd Ave. and Learned St.

Mich., Detroit—Central Forge Co., Euclid Ave., soon lets contract building 2 story, 70 x 302 ft., steel forge shop, rein.-con. flooring and concrete foundation and 2 story, 70 x 302 ft., steel heat treating plant, brick flooring and concrete foundation, on Euclid Ave. near Grand Trunk R.R. Smith, Hinchman & Grylls, 710 Washington Arcade, archts.

Mich., Detroit—Stecker Electric & Machine Co., 34 Bates St., had plans prepared by Beckett & Akitt, archts., Elks Temple, building 3 story, 75 x 250 ft. brick and rein.-con. factory, rein.-con. flooring and concrete foundation.

Mich., Lansing—Rector Transfer Co., 533 River St., purchased site of Northrop, Robertson & Carrier Co. on North Grand Ave., and plans to construct 5-story fireproof storage building. About $75,000. W. S. Foster, pres.

Ill., Chicago—See "Buildings."

Wis., Green Bay—Ft. Howard Paper Co. having plans prepared by T. O'Keefe, engr., Appleton, building 3 story, 70 x 220 ft., rein.-con., brick and mill construction paper mill, concrete foundation. About $75,000.

Wis., Manitowoc—Manitowoc Brewing Co. plans to remodel 2 story, 90 x 140 ft. rein.-con. and brick brewery into ice cream factory. About $72,000. R. Rauber, Manitowoc, archt.

Wis., Menasha—Peerless Paper Products Co. having plans prepared by L. A. De Guere, engr., Wood Co. Bank Bldg., Grand Rapids, building 3 story, 40 x 150 ft., rein.-con., brick and steel paper mill.

Wis., Menasha—U. S. Tractor Co., recently organized, plans to build factory. About $50,000.

Wis., Racine—Malbohm Motor Co., 15th and Clark Sts., soon lets contract building 1 story, 80 x 600 ft. factory. About $90,000. Noted Jan. 2.

Wis., Sheboygan—W. C. Weeks, archt., 730 Ontario Ave., receives bids about Apr. 1, for 6 story, 50 x 140 ft. factory on South Water St., for Northern Furniture Co. About $75,000.

Wis., Starlake—A. H. Strange Co., Merrill, plans to build saw and planing mill here. About $45,000. C. H. Strange, secy.

Wis., Two Rivers—Wisconsin Textile Co. plans to build 1 story, 90 x 200 ft,. concrete plant. About $50,000.

Kan., Oswego—City election Apr. 1, to vote on $50,000 bonds to build new lighting plant.

Mo., Kansas City—Clagett Transfer & Storage Co., 1316 West 8th St., purchased site at 1216-20 West 8th St. and plans to build 6 or 8 story building to contain 125,000 sq.-ft. storage room. About $150,000.

Mo., St. Louis—Hussmann Refrigerator Co., 911 North Bway., receives bids in April building 1 story, 130 x 200 ft., brick, concrete and steel factory, rein.-con. flooring, concrete foundation, on Leffingwell Ave. and North Market St. About $50,000. H. J. Schulte, 1517 North 23rd St., archt. Noted Jan. 9.

Mo., St. Louis—A. A. Marquardt, engr., 930 Chouteau Ave., receives bids about Apr. 15, building 2 story, 50 x 150 ft., brick and concrete factory, concrete foundation, for St. Louis Wire & Iron Co., 926 Chouteau Ave. About $30,000. Noted Feb. 27.

Ark., Forest City—D. C. Webb having plans prepared for 60 x 150 ft. grocery plant. About $25,000.

Okla., Blackwell—Lek Tro Mfg. Co. soon lets contract building 2 story, 40 x 150 ft., rein.-con. and pressed steel factory. About $25,000. L. H. Bailey, 1214 North Oklahoma St., Oklahoma, archt.

Idaho, Caldwell—Bales Bros., 7th and Railroad Sts., plan to build warehouse. About $50,000.

Utah, Ogden—Sperry Flour Co. having plans prepared by M. C. Couchot, engr., 110 Sutter Bldg., San Francisco, building rein.-con. elevator and flour mill. About $300,000.

Ore., Astoria—Montana Union, Amer. Society of Equity plans to build 2,000,000 bu. terminal elevator here, on Lewis and Clark River, west of Port of Astoria.

Ore., Astoria—Mutual Lumber Co., Bucoda, Wash., plans to rebuild saw mill, 130,000 ft. daily capacity.

Ore., Dallas—Mason-Ehrman Grocery Co., 74 North 5th St., Portland, plans to build large warehouse on Southern Pacific Ry. property here. Address H. A. Woods, Dallas, representative.

Ore., Eugene—Eugene Fruit Growers' Assn. purchased lots adjoining cannery and plan to build large cold storage and packing plant. J. Holt, mgr.

Ore., Portland—Oregon Milk Producers' Assn., 208 2nd St., plans to build milk producing plant. About $50,000.

Cal., Camarillo—G. Lewis, Camarillo; W. A. Brown, Santa Paula; B. Reece. Venice, and associates, organizing company with $50,000 capital stock and plans to build cannery, packing and shipping plant, 200 ft. long, concrete flooring and foundation, here.

Cal., Fresno— Dirs. California Associated Raisin Co., Holland Bldg., voted $750,000 for new plants and alterations to existing ones. Plans include stemming plant here, additions to plants at Fowler, Selma and Kingsburg; improvements to packing houses at Hanford, Aromas, Dinuba, Reedley, Del Rey, Lone Star, Sanger and Clovis. W. M. Giffen, pres.

Cal., Fresno—Union Oil Co., Divisadero and Roosevelt Sts., having plans prepared building addition to oil distributing plant and building 6 substations. About $200,000.

Cal., Los Angeles—Pan American Petroleum & Transport Co., Security Bldg., plans to build refinery on 15 acre site in Vernon Industrial Dist. About $250,000.

Cal., Porterville—City Trustees retained Olmsted & Gillelen, engrs., 1112 Hollingsworth Bldg., Los Angeles, to prepare plans for gas plant.

Cal., San Francisco—Independent Paper Co., 268 Market St., plans to build 185 x 200 ft. rein-con. factory and warehouse at 10th and Bryant Sts. About $120,000.

Que., Montreal—Cardinal & Beauchamp, archts., 26 St. James St. E., preparing plans for garage on Park Ave. About $60,000. Owners name withheld.

Que., Montreal—J. Goodman, 11 Lagantiere St., plans to build 75 x 100 ft. garage on Lagantiere St. About $60,000.

Que., Quebec—Harbor Comrs. plan to build cold storage plant at Pointe-a-Carcy Wharf. About $1,000,000. G. Boswell, c/o Harbor Comrs., engr.

Que., St. Lamberts—Waterman Pen Co., 191 Bway., New York City, had plans prepared by D. J. Spence, archt., 256 Beaver Hall Hill, Montreal, for 3 story, 109 x 130 ft. rein.-con. factory, rein.-con. flooring, concrete foundation on Main St. here. About $175,000. F. S. Waterman, pres.

Que., Three Rivers—International Paper Co., 30 Broad St., New York City, plans to build paper plant on 100 acre site to consist of several 1 and 2 story, rein.-con. buildings, rein.-con. flooring, concrete foundation. About $3,000,000.

Ont., Guelph—James, Loudon & Hertzberg, engrs., Excelsior Life Bldg., Toronto, receives bids building 4 story, 60 x 100 ft., rein. con. and brick addition to plant, rein.-con. flooring, concrete foundation, for F. E. Patridge Rubber Co., Metcalf St. About $60,000.

Ont., Guelph—James, Loudon & Hertzberg, engrs., Excelsior Life Bldg., Toronto, receives bids in about 5 weeks building 4 story, 80 x 200 ft., rein. con. factory, rein. con. flooring and rock foundation, on Metcalf St., for Premier Rubber Co. About $135,000. Noted Mar. 13.

Ont., Parry Sound—City having plans prepared by G. Murray, engr., Parry Sound, building electrical plant. About $125,000.

Ont., Port Arthur—Saskatchewan Co-operative Elevator Co., New Grain Exch. Bldg., Winnipeg, Man., having plans prepared for addition to terminal elevator here, to have capacity of 2,000,000 bu.

Ont., Rockland—W. C. Edwards & Co., Ltd., Sussex St., Ottawa, soon receives bids building pulp and paper mill here. About $3,600,000.

Ont., Wyoming—P. I. Nicholson, Alvinston, plans to build flax-mill here. About $25,000.

BIDS DESIRED

Ill., Chicago—Wilson & Co., Union Stock Yards, is receiving bids for 2 story, 81 x 125 ft. mill construction factory, brick foundation, at 4225 South Western Ave. About $40,000. C. P. Barnett, c/o owner, archt.

Wis., Sheboygan—Until Apr. 15 by Juul & Smith, archts., 801 North 8th St., building 4 story, 100 x 250 ft., rein.-con., brick and steel tannery, rein.-con. flooring, brick foundation, on Illinois and Water Sts. for Badger State Tannery Co. About $45,000.

Mo., Boonville—Until Apr. 1, by C. C. Ross, supt., Hamilton-Brown Shoe Co., Jefferson and Randolph Sts., St. Louis, building 3 story, 60 x 250 ft., mill construction factory, concrete foundation. About $40,000. I. Taylor Architectural Co., 717 Locust St., St. Louis, archts. Noted Mar. 6.

Ore., Astoria—Until Apr. 1, by Port of Astoria, building addition to and remodeling existing warehouse in Sect. 6. R. R. Bartlett, chief engr., Port Seattle.

Que., Montreal—Until Apr. 1, by C. Dufort, archt., 195 St. Catherine St. E., building and equipping 2 story, 75 x 77 ft. garage on City Councillor and Ontario St., W., for Bramson Auto Service, 455 Phillips Pl. About $50,000. Noted Jan. 16.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—See "Buildings."

★**Mass., New Bedford**—W. C. Jones Co., Nash Rd., let contract building 1 story, 100 x 200 ft. brick and concrete storehouse, rein.-con. flooring and concrete foundation, on Nash Rd., to E. A. Abbott Co., 185 Devonshire St., Boston. About $70,000. Noted Mar. 20.

★**Mass., Quincy**—(Boston P. O.)—Murray & Tregurtha Co., 340 West 1st St., South Boston, let contract building 1 story, 60 x 204 ft. brick and concrete addition to machine shop, rein.-con. flooring and concrete foundation on Atlantic and Hancock Sts., to Wilson & Tomlinson Co., 79 Milk St., Boston. About $50,000.

★**Mass., Somerville** (Boston P. O.)—Standard Envelope Sealer Mfg. Co. let contract building 2 story, 65 x 120 ft. mill construction factory, concrete foundation on Winter and Spring Sts., to A. M. Pride, Somerville, $30,000.

★**Mass., Worcester**—C. O. Johnson & Sons, 22 Lakewood St., let contract building 1 story, 40 x 256 ft. timber factory, concrete flooring and foundation on Ludlow St., to F. W. Mark, 4 Walnut St. About $28,000.

★**R. I., Providence**—J. C. Doran & Sons, Inc., 150 Chestnut St., let contract building 2 story, 60 x 75 ft. brick and mill construction factory, concrete flooring and foundation, on Elbow St., to C. I. Bigney Constr. Co., 898 Westminster St. About $35,000.

★**R. I., Providence**—J. A. Foster Co., 69 Dorrance St., let contract building 4 story, 72 x 100 ft. mill, on Harrison St., to C. I. Bigney Constr. Co., 898 Westminster St. About $30,000.

★**R. I., Providence**—H. A. Thayer, 404 Weybosset St., let contract building 1 story, 40 x 90 ft. and 16 x 38 ft. brick garage and service station, rein.-con. flooring and concrete foundation, on Weybossett and Winslow Sts., to C. I. Bigney Constr. Co., 898 Westminster St. About $25,000.

Industrial Works (Continued)

★R. I., **Providence**—United States Finishing Co., Charles St., let contract building 2 story, 40 x 55 ft. mill construction addition to power house on Charles St., to Day & Zimmerman, 611 Chestnut St., Phila. About $35,000.

★**Conn., Ansonia**—S. F. Yudkin, 403 Main St., let contract building 1 story, 200 x 202 ft. concrete garage, rein.-con. flooring and concrete foundation, on Central St., to Concrete Constr. Co., Ansonia. About $50,000. Noted Mar. 6.

★**Conn., Bridgeport**—Conlin & Green, Inc., 70 Elm St., let contract building 3 story, 40 x 70 ft. brick plant, concrete foundation and flooring, on Elm St., to T. J. Pardy Constr. Co., 15 Fairfield Ave. About $25,000.

★**Conn., Bridgeport**—T. J. Pardy Constr. Co., 15 Fairfield Ave., will build 1 and 2 story, 40 x 60 ft. and 50 x 80 ft., brick, steel and concrete mill, concrete flooring and foundation on Seaview Ave. About $30,000. Work will be done by day labor.

★**Conn., Hartford**—L. and J. Weinstein, Asylum St., will build 3 story, 42 x 42 ft. brick bakery, brick foundation, on Village St. Work will be done by day labor.

★**Conn., New Haven**—Bradley-Smith Co., 102 Hill St., let contract building 6 story, 88 x 108 ft. brick and steel addition to factory, concrete foundation, on Hill St., to Dwight Bldg. Co., 24 Center St. About $100,000.

★**Conn., Plainville**—Landers, Frary & Clark, Commercial and Centre Sts., New Britain, let contract building 4 story, 60 x 100 ft. brick and steel factory, concrete flooring and foundation on Woodford Ave., here, to Torrington Bldg. Co., 197 Water St., Torrington. About $50,000.

★**N. Y., Brooklyn**—Saba Constr. Co., 301 East 16th St., will build 1 story, 100 x 105 ft., brick and rein.-con. garage at 1402 Newkirk Ave. About $25,000. Work will be done by day labor.

★**N. Y., New York**—L. Klosk, 40 West 111th St., will build 1 story, 97 x 148 ft., brick and steel garage, rein.-con. flooring, concrete foundation, at 419-425 East 109th St. About $30,000. Work will be done by day labor.

★**N. Y., New York**—J. F. Murray, 33 Clifton Terrace, Weehawken, N. J., let contract building 8 story, 50 x 100 ft., brick and steel warehouse, rein.-con. flooring, concrete foundation, at 548 West 39th St., here, to Harby, Abrons & Melins, 15 East 40th St. About $150,000.

★**N. Y., New York**—Natl. Ice & Coal Co., 7-15 East St., let contract building 2 story, 120 x 120 ft., brick and steel refrigerating plant, rein.-con. flooring, concrete foundation, at 8-10 Tompkins St., to J. Brody, 8-10 Tompkins St. About $75,000.

★**N. Y., New York**—S. K. W. Shellat, Newport, R. I., will build 2 story, 98 x 117 ft., brick and steel garage, rein.-con. flooring, concrete foundation, at 536-546 West 42nd St. here. About $50,000. Work will be done by day labor, Marcus & Goldstein, 141 Bway., lessee. Noted Mar. 6.

★**N. Y., Rochester**—Eastman Kodak Co., Kodak Park, let contract building 6-story, 162 x 182 ft., rein.-con. factory on Hanford Landing Rd., to Ferro Concrete Constr. Co., Richmond and Harriet Sts., Cincinnati, O. About $350,000. Noted Mar. 6.

★**N. Y., Staten Island**—Proctor & Gamble Co., 100 Broad St., New York City, let contract building concrete, steel and brick warehouse at Port Ivory to H. J. Ferguson, 6523 Euclid Ave., Cleveland, O. About $150,000.

★**Md., Baltimore**—Maryland Glass Corp., Bromo Seltzer Tower Bldg., let contract building 2 story, 69 x 110 ft., concrete, brick and steel addition, rein.-con. flooring, stone and concrete foundation, on Ontario St. near Baltimore & Ohio R. R., to Price Constr. Co., 210 Maryland Trust Bldg. About $50,000.

★**Ga., Albany**—McLin & Norris, Greenville, S. C., let contract building large shuttle block plant, here, to F. B. Leonard, Albany.

★**Ala., Mobile**—Mobile Cotton Mills, c/o Standard Oil Cloth Co., 320 Bway., New York City, let contract building concrete addition to weaving plant here, rein.-con. flooring, concrete foundation, to T. C. Thompson, 609 North Smith St., Charlotte, N. C. About $275,000. Costs plus percentage basis.

★**Mich., Detroit**—Bd. Water Comrs., 232 Jefferson Ave., let contract building 54 x 90 ft. steel, brick and concrete boiler house and steel coal hoppers, to Lennane Bros., Union Trust Bldg. and F. E. Chapper Iron Wks., 128 Fort St., E., $27,238.

★**Mich., Detroit**—Sanders Co., 381 Woodward Ave., let contract building 3 story, 40 x 200 ft. rein.-con. and brick addition to bakery and candy factory at 381 Woodward Ave., to A. A. Albrecht Co., 1130 Penobscot Bldg.

★**Mich., Grand Rapids**—Arctic Ice Cream Co., 507 Grand River St., Detroit, let contract building 2-story, 150 x 250 ft. brick and rein.-con. ice cream factory, on Market Ave., here, to F. A. Horner, Grand Rapids.

★**Ill., Chicago**—Chicago Transfer & Storage Co., 5861 West 65th St., let contract building 1 story, 140 x 250 ft., mill construction warehouse, concrete foundation, on 65th St. and 60th Ave., to Walter Co., 1st Natl. Bank Bldg. About $60,000.

★**Wis., Eau Claire**—Dells Paper & Pulp Co. let contract building 2 story addition to paper mill, to A. Larson & Co., Eau Claire. About $25,000.

★**Wis., Glenbeulah**—Glenbeulah Canning Co. let contract building 2 story, 45 x 110 ft., brick canning factory, rein.-con. flooring, brick foundation, on Main St., to O. R. Pakel, Plymouth. About $42,000.

★**Wis., Green Bay**—Conradson Machine Tool Co. let contract building 1 story, 192 x 192 ft., concrete, brick and steel machine shop, to H. J. Selmer Co., Green Bay. About $55,000. Noted Feb. 6.

★**Wash., Wenatchee**—Cashmere Apple Co. let contract building 2-story, 90 x 107 ft., brick warehouse on Wenatchee Ave. and Spokane St., to Bird & Hobson, Wenatchee. About $30,000. Noted Feb. 27.

★**Ore., Portland**—H. Wagner, 475 Burnside St., let contract building 2 story, 50 x 150 ft., concrete garage, on 1st and Alder Sts., to Hurley Mason Co., Gasco Bldg.

★**N. B., Moncton**—J. Eaton & Co., Ltd., 190 Yonge St., Toronto, Ont., let contract building factory here, to G. Fuller Co., Ltd., 45 St. Alexander St., Montreal, Que. About $782,000. Noted Mar. 6.

★**Ont., Thorald**—Pilkington Bros., Ltd., let contract building steel, brick and timber box making plant, to H. K. Ferguson Co., 6523 Euclid Ave., Cleveland, O. About $65,000. Address owners c/o contractor.

Buildings

PROPOSED WORK

Mass., Boston—Office—Henderson & Ross, 148 State St., having plans prepared by McNaughton & Robinson, archts., 101 Tremont St., for 6 story, rein.-con. and steel, rein.-con. flooring and concrete foundation. About $300,000.

Mass., Fall River—Stations—City plans to build 4 comfort stations at parks. About $50,000. J. H. Kay, mayor.

Mass., Lenox—School—Bd. Educ. plans to build school at North Lenox. About $75,000 including site.

Mass., New Bedford — Bank — Textile Trust Co. purchased site on Union and 6th Sts. and plans to build. About $100,000.

Mass., New Bedford—Business—S. Genensky, 69 Russell St., soon receives bids building 2 story, 70 x 70 ft. brick, concrete foundation on 6th St. About $50,000. C. Hammond & Son, North Water St., archts.

R. I., Providence—Theatre—W. R. Walker & Son, archts., 17 Custom House St., receive bids in April building 32 x 72 ft. brick, steel and concrete addition here, for J. Bartley, Seekonk, Mass. About $50,000. Noted Jan. 23.

Conn., Hartford—Bank—Amer. Industrial Bank & Trust Co., 688 Main St., plans to build 15 story, on Main St.

Conn., Hartford—Church—Second Church of Christ Scientist, 25 High St., purchased site on Lafayette and Russ Sts., and plans to build church.

Conn., Hartford—Market—Bd. Contract & Supply soon receives bids building 1 story public market on Connecticut Blvd. About $100,000. Whiton & McMahon, 36 Pearl St., archts. Noted Feb. 27.

Conn., Meriden—Infirmary—City plans to build infirmary at Cold Spring Home on West Mountain St. About $50,000. Address J. B. Dinnan, West Mountain St.

Conn., New London—Hospital—J. Lawrence Hospital, Ocean Ave., receives bids about May for 3 story, 40 x 90 ft. brick, rein.-con. flooring. About $100,000. Kendall, Taylor & Co., 93 Federal St. Boston, Mass., engrs.

Conn., New London—Office, etc.—Hilderbeck & Langdon, archts., 253 State St. receive bids about Apr. 20, for 3 story, 60 x 100 ft., office, to include stores, and dance hall, rein.-con. flooring, for L. Hall Estate. About $100,000. B. A. Copp, trustee.

Conn., Southington—Hospital—Town received bequest of $100,000 from will of A. Bradley to build memorial hospital to be known as Bradley Memorial Hospital.

Conn., Stamford — School — Bd. Educ. plans to build 2 story, grammer school on State and South Sts. Cost between $130,000 and $150,000.

Conn., Watertown—School—Bd. Educ. receives bids in April building 2 story brick addition to South School, rein.-con. flooring and concrete foundation, on Oakville St. About $50,000. L. Asheim, 211 State St., Bridgeport, archt.

N. Y., Albany—Theatre—M. Spiegel, Strand Theatre Bldg., New York City, having plans prepared by T. Lamb, archt., 644 8th Ave., New York City, for 2 story, 75 x 175 ft., brick and stone, concrete foundation, on Monroe St. here. About $150,000.

N. Y., Brooklyn—Hospital—Beth Moses Hospital, Hart St. and Stuyvesant Ave., having plans prepared by H. J. Nurick, archt., 957 Bway., for 5 story, 90 x 100 ft., brick and steel addition, concrete flooring. About $350,000.

N. Y., Brooklyn—Synagogue—New Hebrew School, 479 Ashford St., had plans prepared by E. M. Adelsohn, archt., 1778 Pitkin Ave., for 3 story, 46 x 70 ft., steel and brick, concrete foundation, on Ashford St. and Sutter Ave. About $60,000.

N. Y., Brooklyn — Theatre — Courtney Marshall Estate, c/o Brooklyn Trust Co., Pierpont St., having plans prepared by De Rosa & Pereira, archts., 110 West 40th St., New York City, for 1 story, 100 x 100 ft., brick and steel, concrete foundation, on Saratoga Ave. and Macon St. About $100,000.

N. Y., Brooklyn—Theatre—R. T. Short, archt., 370 Macon St., receives bids about Mar. 29, building 1 and 2 story, 80 x 180 ft., brick, steel and limestone moving picture theatre, concrete foundation, on Flatbush Ave. and Farragut Rd., for A. H. Schwartz, 815 Flatbush Ave. About $60,000.

N. Y., Carthage—School—St. James Parish Bldg. Com. plans to build 40 x 100 ft., concrete school on Mechanic St. to be known as St. James Augustina Academy. About $60,000.

N. Y., Lockport—Hall—City plans to build. About $125,000. J. F. Freshee, city engr.

N. Y., New York—Mission—Natl. Bible Institute, 213 West 35th St., plans to construct 15-story, 100 x 100 ft., brick and limestone cremorne mission building, concrete foundation at 214-216 West 35th St. McKenzie, Voorhies & Gemlin, 1123 Bway., archts.

N. Y., New York—Office and Loft—Lawyers' Realty Co., 160 Bway., having plans prepared by R. Higgins, archt., 126 East 38th St., for 5-story, 25 x 100 ft., brick and steel, concrete foundation, at 45 Maiden Lane.

N. Y., Penn Yan—Hospital—City plans to build Soldiers and Sailors Memorial hospital. About $150,000.

N. Y., Rochester—Temple—Rochester Masons selected site on East Ave. north of Scio St., and plans to build large temple.

N. Y., Troy—Bathhouses, etc.—City plans to build bath houses and comfort stations in Frear Park; also extend ornamental lighting zone from River to State Sts. on 1st St. A. E. Roche, city engr.

N. Y., Watertown—Cottages—Bd. Trustees Jefferson Co. Orphans Asylum acquired 14 acre site on State St., and having plans prepared for 10-12 cottages

N. J., Dunnellen—School—Bd. Educ. having plans prepared for addition to Whittier School. About $82,000.

N. J., Jersey City—School—Bd. Educ. plans to build school. About $700,000. E. A. Rowland, Sip Ave., archt.

N. J., Soho (Newark P. O.)—Hospital—Bd. Freeholders, Essex Co. (Newark), having plans prepared by P. Mertens, archt., 1091 Clinton Ave, Irvington, for smallpox building here. About $50,000.

Buildings (Continued)

Pa., Farrell—Bank and Office—Colonial Trust Co., Bway., having plans by A. C. Bossum, archt., 336 5th Ave., New York City, building 3 story, 55 x 125 ft., brick and steel, concrete foundation. About $75,000. J. Stevenson, pres.

Pa., Phila.—Stores and Office—E. Wolf, 1517 North 16th St., plans to build 7 story, 76 x 156 ft., rein.-con., brick and timber, rein.-con. flooring, concrete foundation, on 16th and Market Sts. About $400,000. Hoffman Co., Finance Bldg., archt.

Pa., Phila.—Temple—A. A. O. Nobles Mystic Shrine, 1337 Spring Garden St., plans to build, at 24th and Spring Garden Sts. and Pkway. About $750,000. W. F. Kendrick, chn. bldg. com.

Pa., Pittsburgh — Church, Training School, etc.—Methodist Episcopal congregation, 7th and Smithfield Sts., plans to build brick and stone church, training school, social headquarters and auditorium. About $500,000. D. L. Marsh, pastor.

Del., Wilmington—Office—A. I. Du Pont, Delaware Trust Co. Annex having plans prepared for 15 or 18 story, on 9th and Market Sts.

Md., Baltimore—Hotel—C. H. Consoloo, Hotel Belvedere, plans to remodel and alter hotel on Charles and Chase Sts. About $100,000. Parker, Thomas & Rice, Union Trust Bldg., archts.

Va., Pulaski—Bank—Pulaski Natl. Bank plans to build brick or stone addition. About $50,000.

Ga., Atlanta—Museum—City voted $100,000 bonds to build in Grant Park. H. L. Collier, city engr. Noted Feb. 13.

Ga., Canton—Hotel—Canton Hotel Co. plans to build hotel. About $50,000.

Ga., Macon—Court House—Bibb Co. voted $400,000 bonds to build court house. Noted Jan. 9.

Ga., Macon—Schools—Bibb Co. voted $400,000 bonds to build several schools and pay debt of new high school. Noted Jan. 9.

Ga., Savannah—Church—First Baptist congregation, Bull St., plans to build church. About $100,000. L. R. Christie, pastor.

Fla., Jacksonville—Bank—Atlantic Natl. Bank having plans prepared by Mowbray & Uffinger, archts., 56 Liberty St., New York City, for altering existing building and constructing 1 story, 50 x 100 ft., brick and stone addition, concrete foundation.

Fla., Melbourne—School, etc.—Bd. Educ. Brevard Co., rejected bids building 2 story, 80 x 183 ft., rein.-con. school and 54 x 72 ft. auditorium extension. Noted Jan. 9.

Ala., Tuscaloosa—Church—First Presbyterian congregation plans to build church. About $75,000.

Miss., Hattiesburg — Dormitory — Mississippi Women's College plans to build dormitory to replace one recently damaged by fire. About $75,000.

Ky., Bowling Green—High School—City election Nov. 4, to vote on $60,000 bonds to build school. W. W. Williams, secy. bd. educ.

Ky., Lexington—Hotel—Phoenix Hotel Co., East Main St., plans to build addition to hotel, which was partially destroyed by fire. About $1,000,000. Richards, McCarty & Bulford, Hartman Bldg., Columbus, archts.

O., Cincinnati—School—Bd. Educ. rejected bids building Hoffman School, 2 story, brick, on Bloody Run Blvd. About $250,000. Hannaford & Son, Hulbert Blk., archts. Noted Mar. 13.

O., Youngstown—Hospital—City plans to build 5-story contagious unit to city hospital on Homestead and Indianola Sts. About $250,000. F. M. Lillie, city engr.

Mich., Benton Harbor—Home, etc.—Knights of Columbus plan to build 3-story home and convention hall. About $50,000.

Ill., Chicago—Infirmary, etc.—Cook Co. election Apr. 1, to vote on $290,000 bonds for cottages at infirmary, $50,000 for agents office, $20,000 for bakery, $75,000 for laundry, $89,000 for factory and $36,000 for tunnels between various buildings at infirmary. P. Reinberg, pres. bd. co. comrs. E. E. Hall, 5 North La Salle St., archt. Noted Feb. 20.

Ill., Chicago—Memorial—Victory Memorial Assn. recently incorporated, plans to build 200 x 200 ft. steel, rein.-con. and granite memorial here with 500 ft. triangular shape shaft to surmount rotunda, 80 ft. interior diam. with 140 ft. vaulted dome to contain 6 elevators. About $2,000,000. C. F. Frybott, 134 South Dearborn St., archt.

Ill., East St. Louis—Community—Natl. Catholic Community Center Serv. c/o Union Trust & Savings Bank, having plans prepared by J. Ware, archt., Washington, D. C., for 3 story, brick and concrete community center, concrete foundation, on 5th and St. Louis Aves. About $150,000. P. Murray, chn.

Ill., East St. Louis—H. L. Nevins, archt., 19 South La Salle St., Chicago, soon receives bids building 2 story building here for Y. M. C. A., 19 South La Salle St., Chicago. About $50,000. W. G. Clark, c/o Y. M. C. A., Federal Bldg., engr.

Ill., East St. Louis—Y. M. C. A. 19 South La Salle St., Chicago, plans to build central building here. About $200,000. H. L. Nevins, 19 South La Salle St., Chicago, archt.

Wis., Eau Claire—Church—First Norwegian congregation receives bids about Apr. 15, building 1 story, 78 x 130 ft., brick and steel, rein.-con. flooring. About $60,000. C. Valkman, 106½ Grand Ave., archt. Noted Jan. 30.

Wis., Fond du Lac—Hall—Park Bd. plans to build 2 story memorial hall. About $50,000. H. R. Potter, chn.

Wis., New London—Hall—City having preliminary plans prepared by J. Thompson, archt., New London, building 3 story memorial hall. About $60,000.

Wis., New London—High School—Bd. Educ. receives bids in spring building 3 story, 65 x 200 ft., rein. con., brick and steel. About $85,000. A. Jensen, Oshkosh, archt. Noted May 2.

Wis., Sheboygan—Office—W. C. Weeks, archt., 730 Ontario Ave., receives bids about Apr. 5, building 4 story, 70 x 80 ft. on 9th and Center Sts. for Citizens Telephone Exch., 701 North 8th St. About $70,000. Noted Jan. 30.

Wis., Sheboygan—School—Bd. Educ. plans to build school. About $250,000.

Wis., Wales—Infirmary—State Bd. Control receives bids in spring building 2 story, 40 x 140 ft. here. About $100,000. A. Peabody, Capitol, Madison, archt. Noted Feb. 27.

Ia., Clinton—Office—Iten Biscuit Co., 1320 Walnut St., Des Moines, plans to build 88 x 120 ft. here. About $60,000.

Ia., Newton—Bank—First Natl. Bank, c/o C. F. Eckland, chn. bldg. com., soon lets contract building 2 story, 52 x 100 ft. rein.-con. and stone. About $50,000. A. H. Edwards Co., 107 South Wabash Ave., Chicago, Ill., archts. and engrs.

Ia., Tama—Hotel—E. L. Beard Co. having plans prepared by G. L. Lockhart, archt., 391 Endicott Bldg., Minneapolis, Minn., building 5 story, 80 x 80 ft. About $125,000.

Minn., Rice—Church and Parish House—Immaculate Conception congregation having plans prepared for church and parish house. About $75,000.

Kan., Fredonia—Grade School—Bd. Educ. having plans prepared by T. W. Williamson & Co., archt., 418 Central Natl. Bank Bldg., Topeka, building 1-story, 80 x 140 ft. About $50,000. C. R. Cantrall, clk.

Kan., Wichita—Schools—Bd. Educ. plans election to vote on $850,000 bonds to build two intermediate schools.

S. D., Pierre — Office — State Capitol Comrs. plan to build on Capitol Grounds. About $400,000.

S. D., Rapid City—Hall—State Bd. Educ. Pierre, plans to build engineering hall for South Dakota School of Mines, on College Grounds here. I. D. Aldrick, Big Stone City, secy. bd. regents. About $100,000.

N. D., Pembina—School—Bd. Educ. plans to rebuild combined school recently destroyed by fire. About $80,000.

Wyo., Cheyenne—Hospital—Comrs. Larimer Co. plan election Apr. 22, to vote on $75,000 bonds to build hospital. Total cost $100,000; remainder to be paid by public subscription.

Mont., Bozeman—Theatre—F. W. Wilson, archt., Bozeman, preparing plans for 2 story, 54 x 140 ft., brick and concrete. About $50,000. Owners' name withheld.

Mont., Helena—Laboratory—State Legislature appropriated $50,000 to build laboratory here.

Mo., Kansas City — Hospital — Church Charity Assn., which includes all Episcopal churches in Kansas City and diocese of West Missouri, plans to build new St. Luke's Hospital, cost $350,000. S. C. Partridge, bishop.

Mo., Kansas City—Schools—Bd. Educ. having preliminary plans prepared for several school buildings. About $2,000,000. J. Cowgill, mayor.

Mo., St. Louis—Bank and Office—St. Louis Union Trust Co., 4th and Locust Sts., having plans prepared by C. Gilbert, 244 Madison Ave., New York City, and Mauran, Russell & Crowell, Chemical Bldg., archts., building rein.-con. and steel, 7th and Locust Sts. J. H. Grover, vice-pres. Noted Jan. 9.

Mo., St. Louis—Hotel—Argonne Realty Co., 2407 North Bway, having plans prepared by Kennerly & Stiegemeyer, archts., Benoist Bldg., for 8 story, 77 x 234 ft., brick and rein.-con., concrete flooring and foundation, at 3664 Washington Ave. About $350,000. S. Hamburg, mgr.

Ark., Blytheville — Auditorium — Blytheville Auditorium Co., having plans prepared by M. Seligman, archt., Citizens' Bank Bldg., Pine Bluff, building 60 x 140 ft. auditorium and theatre on West Main St. About $50,000.

Ark., Winslow—School—Winslow School Dist. soon lets contract building 2-story brick. About $50,000. I. H. Russell, secy. J. A. Bliss, 607 Southern Trust Bldg., Little Rock, archt.

Tex., Oakville—Courthouse and Jail—Comrs. Live Oak Co. receive bids about May building courthouse and jail. About $100,000. Lone Star Eng. Co., San Antonio, archts.

Tex., Paris—Church—Van Slyke & Woodruff, archts., 403 Reynolds Bldg., receives bids about May 1 building concrete, brick and steel here. About $130,000. Noted Feb. 27.

Okla., Elk City—Convention Hall—City election Apr. 1, to vote on $75,000 bonds to build convention hall.

Okla., Elk City—High School—Bd. Educ. plans to issue $50,000 bonds to build high school.

Okla., Idabell—Courthouse and Jail—McCurtain Co. election Apr. 16, to vote on $125,000 bonds to build courthouse and jail. H. A. Smith, co. clk.

Okla., Jefferson—School—Bd. Educ. soon lets contract building school. About $50,000. Tonini & Bramblet, Terminal Bldg., Oklahoma, archts.

Okla., McAlester—High School—Bd. Educ. soon receives bids building 2-story, 175 x 225 ft., rein.-con. and brick. About $300,000. J. Hicks, 19½ West Main St., Oklahoma, archt. Noted Feb. 27.

Okla., Tulsa—Hospital—L. D. Layton, c/o Thompson & Fleming, archts., 222 Iowa Bldg., having plans prepared for 3 story, 40 x 95 ft., rein.-con. and brick. About $75,000.

Okla., Vinita—Court House—Craig Co. plans election soon to vote on $150,000 bonds to build court house. Layton & Smith, 701 Southwest Reserve Bank Bldg., Oklahoma, archts.

Ariz., Globe—School—School Trustees plan election to vote on $75,000 bonds to build grammar school on Sycamore and Sutherland Sts.

Ariz., Morenci—Schools—School Trustees voted $150,000 bonds to build high school, 2 grade schools and addition to manual art building. J. P. Hodgson, trustee. Noted Feb. 13.

Ore., Astoria—Schools—Bd. Educ. plans to build 2 grade schools. Whitehouse & Fouilhoux, Ry. Exch. Bldg., Portland, archt. About $180,000.

Ore., Pendleton — Home — Commercial Assn., Milarkey Bldg., having tentative plans prepared for home for dependent children and aged, of Women of Woodcraft Institution. Large fund available. C. C. Van Orsdale, grand guardian.

Ore., Salem—Cottage, etc.—State having plans prepared by L. I. Thompson, archt., 91 North 10th St., Portland, for new pavilion and superintendent's cottage at State Tuberculosis Hospital; also 2 dormitories at State Home for Feeble Minded, $27,000 each.

Cal., Fresno — Mausoleum — Mountain View Cemetery Assn. considering building rein.-con. mausoleum. About $250,000.

Cal., Los Angeles—Church—Hollywood Christian congregation retained R. H. Orr, archts., 1301 Van Nuys Bldg., to prepare plans for 85 x 120 ft., hollow tile, concrete foundation, on Hollywood Blvd. and Gower St.

Buildings (Continued)

Cal., San Joaquin—Store, Hotel, etc.—San Joaquin Lands Co., Fresno, having plans prepared by E. Matheson, archt., Cory Bldg., for concrete and brick, store, hotel, hall, theatre and bank here. About $80,000.

Cal., Wasco—School—Wasco School Dist. voted $60,000 bonds to build 2-story, 146 x 182 ft. grammar school. Plans being prepared by J. M. Saffell, archt., New Fish Bldg., Bakersfield. Noted Feb. 20.

Cal., Wilmington—School—Tower Hill School Assn. having plans prepared by Brown & Whiteside, archts., Du Pont Bldg., for 2 story, on 17th St. and Tower Hill Rd. About $250,000.

N. S., Halifax—School—School Bd., 81 Sackville St., soon receives bids building Richmond School. About $85,000. A. R. Cobb, Tramway Bldg., archt. Noted Aug. 15.

Que., Chicoutimi — Church — Cathedral Church of Chicoutimi having plans prepared by Beale & Lamontagne, archts., 21 D'Aiguillon, Quebec, for 2 story, rein.-con. church and 3 story sacristry. About $175,000 and $25,000 respectively.

Que., Drummondville—Hall, etc.—Town having plans prepared for town hall and court house. About $60,000. N. C. Moisan, city clk.

Que., Montreal — Office — International Trust Co. had plans prepared by P. L. W. Dupre, archt., 15 St. Lawrence Blvd., for 10 story on St. Lawrence and James Sts. About $250,000.

Que. St. Jean de Chantel—School—Parish Church of St. Jean de Chantel plans to build school. About $50,000.

Que., Sherbrooke—Technical School—City plans to build. About $150,000. E. C. Gatien, clk. Noted Mar. 14, 1918.

Ont., Amherstburg—Theater—N. A. Marra, River Front, plans to build theatre. About $50,000.

Ont., Kingston—School—Bd. Educ. soon receives bids building in Cataraqui Ward. About $100,000. J. R. Stuart, Kingston, inspector.

Ont., Ottawa—School—School Bd. soon receives bids building 3 story brick and timber addition to Creighton St. school, rock foundation. About $120,000. W. C. Beattie, Elgin St., bldg., supt.

Ont., Ottawa—Theatre and Office—Jackson Booth Syndicate, c/o G. Ewart, archt., Booth Bldg., had plans prepared for 10 story, on Metcalf St. About $175,000.

Ont., Peterborough—School—School Bd. plans to build 2 story school, consisting of 20 rooms and auditorium. About $200,000. Preliminary sketches will be received until Apr. 5. E. G. Patterson, Peterborough, chn., property com.

Ont., Scarborough — School — School Comrs. had plans prepared building 3 story fireproof. About $60,000. W. S. Annis, clk.

Ont., Toronto—Memorial School—School Bd. plans to build 2 story, brick school to be known as John Ross Robertson Memorial School on Glengrove Ave. Cost not to exceed $100,000. Competitive plans will be received until Apr. 1. W. C. Wilkinson, 155 College St., secy.-treas.

Ont., Weston—School—School Bd. receives bids in April building 2 story brick school. About $60,000. S. B. Coon, Excelsior Life Bldg., Toronto, archt. Noted Mar. 13.

Ont., Windsor—Club House—All Saints' congregation plans to build club house. About $75,000. A. Carlisle, Windsor Ave., rector.

B. C., Vancouver—Bank and Office—Union Bank, Hastings and Seymour Sts., having preliminary plans prepared by Somerville & Putnam, archts., 910 London Bldg., building 3 story, 50 x 120 ft. rein. con., tile and stone, rein. con. flooring and concrete foundation. About $200,000.

BIDS DESIRED

Pa., Phila.—Bank—Until Mar. 26, by P. A. Davis, archt., 1713 Samson St., altering and building 3 story, 20 x 109 ft., brick, steel and rein. con. addition, rein. con. flooring, concrete foundation, on Front and Norris St., for 9th Natl. Bank. About $75,000.

N. C., Charlotte—High School—Until Mar. 31, by Bd. Educ., building 3 story, rein.-con., brick and tile. About $135,000. Edwards, Sayward & Leitner, Chamber of Commerce Bldg., Atlanta, Ga., archts. Noted Mar. 6.

O., Akron—Theatre and Arcade—C. H. Crane and E. G. Kiehler, archts., 2325 Dime Bank Bldg., Detroit, Mich., receiving bids building 2 story, 99 x 136 ft. theatre with 30 x 103 ft. arcade, brick, steel and rein.-con., rein.-con. flooring, concrete foundation, on Main and Bowery Sts., for Hippodrome Arcade Co., 434 Akron Savings & Loan Bldg. About $100,000.

O., Cleveland—Theatre and Store—Greenwald & Bernstein, 641 Society Savings Bldg., receiving bids building 2 story 66 x 157 ft. brick, steel and concrete, reincon. flooring and concrete foundation at West 25th St. and Lorain Ave. About $75,000. S. H. Weis, 1031 Schofield Bldg., archt.

Mich., Detroit—Theatre—C. H. Crane and E. G. Kiehler, archts., 2325 Dime Bank Bldg., receiving bids for 2 story brick, rein.-con. and steel rein.-con. flooring and concrete foundation on Gratiot Ave. and Raynor St., for H. Koppin, Breitmeyer Bldg. About $75,000. Noted Jan. 9.

Mich., Lansing—Library, etc.—Until Apr. 2, by Bd. State Auditors, building 6 story brick and rein.-con. library, office and steam heating plant, concrete foundation. About $800,000. E. A. Bowd, 127 Allegan St., W., archt.

Mich., Wakefield—School—Until May 1, by W. Covender, clk. bd. educ., building 2 story, 80 x 175 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, containing manual training, domestic science departments and gymnasium. About $150,000. Nystrom & Olsen, Palladio Bldg., Duluth, archts.

Ill., Chicago—Mail Order—Until Mar. 31, by T. Rodd, ch. engr., Chicago Union Station Co., 600 West Jackson Blvd., building 14 story, 180 x 380 brick and steel mail order building on Randolph and Canal Sts. About $2,500,000. Graham, Anderson, Probst & White, 80 East Jackson Blvd., archts.

Minn., Bovey—School—Until Apr. 22, by J. V. Coleraine, secy. bd. educ., building 3 story, 80 x 140 ft. rein.-con. and brick, rein.-con. flooring, concrete foundation. About $150,000. W. T. Bray, Fidelity Bldg., Duluth, archt.

Minn., Hawley—School—Until Mar. 24, by Bd. Educ., building 2 story, 67 x 118 ft. brick and stone. About $50,000. K. T. Snyder, 933 Plymouth Bldg., Minneapolis, archt. Noted Jan. 2.

Minn., Wakefield—School—Until May 1, by W. Covender, clk. bd. educ., building 2 story, 65 x 150 ft., rein.-con. and steel, rein.-con. flooring, concrete foundation. About $100,000. Nystrom & Olsen, Palladio Bldg., Duluth, archts.

Colo., Ordway—School—Until Apr. 7 by Bd. Dirs., School Dist. No. 12, Crowley Co., building school. About $80,000. Montjoy, French & Frewen, Chamber Commerce Bldg., Denver., archts. Noted Feb. 13.

Cal., Fairfield—Hospital—Until Apr. 7, by Bd. Supervs. Solano Co., building 1 story, 100 x 300 ft., brick and frame. About $97,000. C. E. Perry, Jr., 1209 Sutter St., Vallejo, archt. Noted Feb. 13.

Que., Bury—Hall—Until Mar. 31, by town, building addition to town hall on Main St. About $50,000. J. H. Leonard, Bury, city engr.

Que., Montreal—Club House—Until Apr. 1, by Grand Trunk Football Club, building club house at Pointe St. Charles. About $60,000. H. Payne, 69 Charron St., pres.

Que., St. Tite—College—Until Apr. 1, by L. Auger, archt., 39 St. John St., Quebec, building on Notre Dame St. for Roman Catholic School Comrs. About $75,000.

Ont., King—Bank—K. Rea, archt., 285 Beaver Hall, Montreal, receiving bids building bank here, for Bank of Montreal, 109 St. James St., Montreal. About $50,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—Sales, etc.—Coleman & Gilbert Co., 331 Huntington Ave., let contract constructing 3 story, 80 x 100 ft. rein.-con. sales building and auto repair factory, rein.-con. flooring and concrete foundation, at 1257 Boylston St., to N. Hurwitz, Dorchester. About $100,000.

★**Mass., Southboro**—Chapel—St. Marks School let contract building 1 story, 50 x 100 ft. concrete and brick, concrete foundation, on St. Marks Rd., to Leighton-Mitchell Co., 95 Milk St., Boston. About $60,000.

N. Y., Brooklyn—Schools—Bd. Educ., 500 Park Ave., New York City, received lowest bid building (a) P. S. 20, 5 story, 2 x 193 ft., brick and limestone, concrete foundation, on Roebling St., North 4th and North 5th Sts., (b) P. S. 182, 5 story, 118 x 192 ft., brick and concrete, concrete foundation, on Dumont Ave. and Wyona St., from P. J. Brennan, 624 Madison Ave., New York City, (a) $481,650, (b) $464,340. Noted Mar. 6.

★**N. Y., New York**—Theatre—The 181st St. Constr. Co., 729 Bway., let contract building 3 story, 150 x 200 ft., brick and terra cotta, concrete foundation, on Bway. and 181st St., to Fleishman Constr. Co., 39th St. and 7th Ave. About $500,000.

★**N. Y., Richmond Hill** (Jamaica P. O.)—Church and Sunday School—Richmond Hill Baptist congregation let contract building 1½ story, brick and limestone, concrete foundation, on 114th St. and 91st Ave., to Werner Huberty Co., 50 Court St., Brooklyn. About $70,000.

★**N. J., East Orange**—Hotel—Ridgewood Co., c/o E. V. Warren, archt., 31 Clinton St., let contract building 5 story, 135 x 218 ft. brick and rein.-con., rein.-con. flooring and concrete foundation, on South Munn Ave. north of Central Ave., to Kelly-Ackerson Co., 220 Main St. About $600,000.

★**Pa., Phila.**—Theatre—A. Wax, 937 South St., will build 1 story, 95 x 120 ft. concrete and steel, at 1523-25 South St. About $50,000. Work will be done by day labor.

★**Fla., Melbourne**—School—Bd. Educ., Brevard Co., let contract building 2 story, 113 x 185 ft., rein.-con., to W. E. Martin, 915 7th St., Miami. $70,141.

★**Tenn., Memphis** — Hospital — Methodist Churches of Mississippi, Arkansas and Tennessee let contract building on Lamar and Dudley Sts., here, to Kaucher-Hodges Co., Calhoun St., $85,000. Noted Sept. 12.

★**O., Cincinnati**—Office, Store, etc.—Dixie Terminal Co., 1st National Bank Bldg., let contract building 9 story, 150 x 180 ft., on 4th and Walnut Sts., to Ohio Bldg. & Constr. Co., Burnet and McMillian Aves. About $1,000,000. Noted Feb. 20.

★**O., Kenmore**—School—Bd. Educ. let contract, building 2 story, 69 x 127 ft., brick rein.-con. flooring and foundation, on North 9th St., to H. P. Moran, 425 2nd. Natl. Bank Bldg., Akron, $88,250. Noted Mar. 6.

★**O., Norwood**—School—Bd. Educ. let contracts building 2 story, 80 x 139 ft. school as follows; concrete, to Ferro Concrete Constr. Co., Richmond and Harriet Sts., Cincinnati, cost, $32,500; iron and steel, to South Ohio Iron Co., 458 East 2nd St., $10,470; fundation work, to F. Schmidt, 1750 Courtland Ave., $16,000. Noted Jan. 23.

O., Stoutsville—School—Bd. Educ. received bids building 2 story, 68 x 102 ft. school, from Taylor & Linn, 767 Fountain Sq., Zanesville, $57,000; S. O. Henke, Gallopolis, $58,000; J. K. Wilson, Lancaster, $61,000.

★**Ind., Rockport**—Court House—Comrs. Spencer Co. let contract building 2-story, 105 x 112 ft. rein.-con. and brick, rein.-con. flooring and concrete foundation, to English Bros., Church and Randolph Sts., Champaign, Ill. About $149,541. Noted Jan. 23.

★**Mich., Muskegon** — Hotel — Occidental Hotel Co., Western Ave. and 3rd St., let contract building addition, to Strom-Johnson Constr. Co., Muskegon. About $53,500.

★**Mich., Portland** — High School — Bd. Educ. let contract building 2 story rein.-con. and brick, concrete foundation, to C. Hoertz & Son, Grand Rapids. About $80,000. Noted Jan. 23.

★**Tex., De Leon**—Hotel—Chamber of Commerce let contract building 4 story, rein.-con., to G. W. Hewitt, 332 North Ervay St., Dallas, $118,400. Noted Feb. 27.

★**Okla., Oklahoma**—Hotel—Natl. Hotel Co. let contract building 3 story, 75 x 140 ft., 2310 Exchange Ave., to R. M. Crissman, 2230 West 13th St. About $100,000.

★**Cal., Richmond**—Office and Laboratory—Standard Oil Co., 200 Bush St., San Francisco, let contract building 3 story, concrete and brick office and laboratory here, to P. J. Walker & Co., Monadnock Bldg., San Francisco. About $250,000 and $175,000 respectively.

★**Que., Quebec**—Church—Sacred Heart congregation let contract building 75 x 180 ft., rein. con., concrete and brick, rein. con. flooring, concrete foundation, on Grande Allee, to E. Belanger, 185 Ste. Marguerite St. About $175,000.

Federal Government Work

PROPOSED WORK

Mass., Chelsea—Bulkhead—Bureau Yards & Docks., Navy Dept., Wash., D. C., plans to build; Spec. 3833. About $125,000.

Pa., Phila.—Gasoline System—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install gasoline system for seaplane hangars at Navy Yard here; Spec. 3834. About $12,000.

Federal Government Work (Continued)

Va., Hampton Roads—Additional Emergency Hospital—Bureau Yards & Docks., Navy Dept., Wash., D. C., plans to build; Spec. 3832. About $110,000.

Va., Quantico—Officers Quarters and Administration Building—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build; Spec. 3835.

Va., Yorktown—Barracks, Mess Hall and Officers Quarters—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build; Spec. 3821. About $177,500.

S. D., Rapid City—School and Assembly Hall—C. Sells, comr. Indian Affairs, Wash., D. C., rejected all bids received Mar. 10, same being in excess of appropriation. Noted Mar. 13.

N. D., Wahpeton—School and Assembly Hall—C. Sells, comr. Indian Affairs, Wash., D. C., rejected all bids received Mar. 7, building here, same being in excess of appropriation. Noted Mar. 13.

Mont., Bozeman—Road—Dist. Engr. U. S. Dept. Agriculture, 413 Montana Bldg., Missoula, plans to grade 40 mi. West Gallatin Canyon Rd., 16 ft. wide, Gallatin Co. About $140,000. L. I. Hewes, 202 Bway.-Yamhill Bldg., Portland, Ore., dist. engr.

N. M., Shiprock—Lavatory Annexes—C. Sells, comr. Indian Affairs, Wash., D. C., rejected all bids received Mar. 7, building 2 lavatory annexes at Toadlena School near San Juan, same being in excess of appropriation. Noted Mar. 13.

BIDS DESIRED

Mass., Chelsea—Roads—Until Apr. 7, by Bureau Yards & Docks., Navy Dept., Wash., D. C., building roads; Spec. 3796. About $15,000; $10 deposit required for plans and spec.

Mass., Chelsea—Timber Wharf—Until Apr. 7, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building timber wharf; Spec. 3801. About $80,000; $10 deposit required for plans and spec.

R. I., Newport—Boathouse—Until Mar. 31, by Bureau Yards & Docks, Navy Dept., Wash., D. C.; Spec. 3786. About $30,000; $10 deposit required for plans and spec. Noted Feb. 6.

R. I., Newport—Quay Wall, etc.—Until Mar. 31, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building concrete quay wall and fill; Spec. 3726. About $100,000; $10 deposit required for plans and spec.

R. I., Newport—Water Tanks—Until Mar. 24, by Bureau of Yards & Docks, Navy Dept., Wash., D. C., building 2,300,000 gal. steel water tank; Spec. 3826. About $15,000; $10 deposit required for plans and spec. Noted Mar. 13.

N. Y., Ft. Lafayette—Dredging—Until Mar. 31, by Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging here; Spec. 3597. About $26,000; $10 deposit required for plans and spec. Noted Feb. 27.

D. C., Wash.—Swimming Pools—Until Mar. 24, by Dist. Comrs., Dist. Bldg., building swimming pools at Cardozo Playground, 1st and 2nd Sts., S. W., and at Reservation 126, on Virginia Ave. and 10th St., S. W.; advertised in this issue.

Va., Alexandria—Cranes—Until Mar. 31, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing six I beam electric traveling cranes; Spec. 3794. About $10,800; $10 deposit required for plans and spec. Noted Feb. 6.

W. Va., Wheeling—Pass, Weir, etc.—Until Apr. 5, by U. S. Eng. Office, Wheeling, building pass, weir, beartrap, etc., for each of Dams Nos. 23 and 25, Ohio River; advertised in this isue.

Miss., Meridian—Alterations—Until Mar. 26, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., for miscellaneous alterations in work room and basement of post office; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass., Boston—Repairing Wharf—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Mar. 10, repairing wharf at Lockwoods Basin, East Boston, (1) taking out existing decking stringers and pile caps, pulling old piles, furnishing and driving new piles, working tenons on same, placing and fastening braces in places, furnishing, laying and fastening new decking, and furnishing and placing new fender caps; (2) price per pile for furnishing and cutting tenons on same for all piles in excess of number indicated; (3) price per 1000 ft. (board measure) for old pile caps and stringers worked into place; (4) price per 1000 ft. (board measure) of "bense" yellow pine pile caps and stringers furnished and worked into place, from Aberthaw Constr. Co., 27 School St., (1) $11,690; (2) $38; (3) $38; (4) $109; (60 days).

W. L. Miller, 171 Alfred St., (1) $11,839; (2) $38; (3) $44; (4) $116; (90 days).

W. H. Ellis & Son Co., 479 Meridian St., East Boston, (1) $12,845; (2) $65; (3) $35; (4) $190; (60 days).

Lawler Bros., 16 City Sq., Charlestown, (1) $8,688; (2) $30; (3) $30; (4) $105; (60 days).

Rendle-Stoddard Co., 271 Marginal St., Chelsea, (1) $7,848.92; (2) $33; (3) $45; (4) $140; (60 days).

★N. Y., Fire Island—Barracks—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to W. A. L'Hommedieu & Co., 1 Madison Ave., New York City, $29,629 (60 days). Noted Jan. 30.

★N. Y., New York—Coal and Ash Handling Equipment—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to Specialty Eng. Co., Allegheny and Trenton Sts., Phila., Pa., $24,825 (110 days).

★N. Y., Rockaway—Addition to Sewer System—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to Rangely Constr. Co., 405 Lexington Ave., New York City, $14,840 (60 days). Noted Sept. 12.

★Pa., Ft. Mifflin—Railroad Extension—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building at Naval Ammunition Depot, to H. A. McCleman, 13th and Shunk Sts., Phila., $19,450 (35 days). Noted Mar. 13.

Pa., Phila.—Cranes—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Mar. 17, installing two 15 ton electric traveling bridge cranes in shipbuilding way No. 3,

(1) net price and time for 1 crane installed complete in accordance with drawings and specifications,

(2) net price and time for 2 cranes installed, complete in accordance with plans and specifications,

(3) net price and time for 1 crane installed complete in accordance with bidder's drawings and specifications, which he shall submit with his proposal,

(4) net price and time for 2 cranes installed complete in accordance with bidder's drawings and specifications, which he shall submit with his bid, from

V. R. Browning & Co., 17701 Lake Shore Blvd., Cleveland, O., (1) $30,130, (180 days); (2) $58,260, (180 days).

A. D. Grainger Co., 15 Park Row, New York City, (3) $25,300, (180 days); (4) $48,520, (180 days).

Bedford Fdry. & Machine Co., 1107 5th St., Bedford, Ind., (3) $29,800, (180 days); (4) $59,600, (180 days):

Pawling & Harnischfeger Co., 38th and National Aves., Milwaukee, Wis., (3) $31,500 and $35,000, (200 days); (4) $62,000 and $69,000, (200 days). Noted Mar. 6.

Pa., Phila.—Dredging—U. S. Eng. Office, Witherspoon Bldg., received bids Mar. 11, dredging in Delaware River, Philadelphia Harbor and New Castle, Reedy, Baker and Liston light house ranges, (1) Sect. 1, (2) Sect. 2, (3) Sect. 3, (4) Sect. 4, (5) Sect. 5, (6) Sect. 6, (7) Sect. 7, (8) Sect. 8, (9) Sect. 9, (10) Sect. 10, (11) alternate, Sect. 2 and 3 (12) alternate, Sect. 2 and 4, (13) alternate Sect. 3 and 4, from F. E. Jones, Norfolk, Va., (10)$0.36 per cu.yd. scow measure; Great Lakes Dredge & Dock Co., 17 Battery Pl., New York City, (1) $0.47½ per cu.yd.; Morris & Cumings Dredging Co., 17 State St., New York City, (10) $0.33; Maryland Dredging & Contg. Co., Fidelity Bldg., Baltimore, Md., (7) $0.25 (8) $0.25 (9) $0.25; Bowers South Dredging Co., 914 Amer. Natl. Insurance Bldg., Galveston, Tex., (1) $0.58½; Amer. Dredging Co., Marine & Merchant Bldg., (2) $0.21 11/16, (3) $0.18 15/16, (4) $0.21, (11) $0.20 1/16, (12) $0.19 3/16, (13) $0.19 1/16. Noted Feb. 12.

Md., Annapolis—Seamanship and Navigation Building—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids building at U. S. Naval Academy,

(1) net price and time for work, complete, in accordance with drawings and specifications;

(2) amount and time to be added to or deducted from (1) if concrete piles are used in lieu of timber piles, as specified under alternative, concrete piles;

(3) amount to be added to or deducted from (1) if nailing composition is used in lieu of wood sleepers and cinder fill;

(4) amount to be added to or deducted from (1) if alternative for double hung windows in lieu of counterbalanced, pivoted windows are adopted;

(5) amount to be added to or deducted from (1) if magnesite composition flooring is used in lieu of mastic composition;

(6) unit price per linear foot for both timber and concrete piles in addition to or reduction from length hereinbefore specified;

(7) amount to be deducted from (1) if pile cut off is made at 1 ft.

(8) amount to be added to or deducted from (1) if interior partitions are built of metal lath and plaster in lieu of gypsum block plastered as hereinbefore specified under alternative interior partitions, from

Levering & Garrigue, 552 West 22d St., New York City, (1) $658,922 (270 days); (2) add $7400; (3) add $5200; (4) deduct $487; (5) add $700; (6) timber piles, add $.70 and deduct none; concrete piles, add $1.75 and deduct $.60; (7) deduct $1535; (8) add $4,400.

G. E. Wynne, 82 Home Life Bldg., Wash., D. C., (1) $687,888, (270 days); (2) add $9000; (3) add $3500; (4) add $2500; (5) add $900; (6) add $.60 and deduct $.10 for timber piles and add $1.50 for concrete piles; (7) deduct $2700; (8) add $8500 for 2 in. partitions and add $16,200 for 3 in. partitions.

Irwin & Leighton Co., 126 North 12th St., Phila., Pa., (1) $688,400, (270 days); (2) add $2500; (3) add $2500; (4) add $600; (5) add $700; (6) timber piles, add $.50 and deduct $.25; (7) deduct $2000; (8) add $4000. Noted Feb. 27.

D. C., Bellevue—Fuse and Primer House—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Mar. 17, building fuse and primer storehouse and loading shop,

(1) net price and time for work, complete, in accordance with drawings and specifications, based on use of steel trusses and purlins for framing roof of the loading shop, and use of steel beams for roof of storehouse;

(2) net price and time to be added to or deducted from (1) if roof of loading shop is framed in wood in place of steel;

(3) net price and time to be added to or deducted from (1) if reinforced concrete beams are used in place of steel beams on roof of storehouse;

(4) net price and time to be added to or deducted from (1) if wood block flooring is used in lieu of wood strip flooring, sleepers and cinder fill, in loading shop, from

H. S. Roberts & Co., 1123 Bway., New York City, (1) $26,500, (90 days); (2) deduct $750; (4) add $600.

Oscawana Bldg. Co., 101 Park Ave., New York City, (1)$34,100, (100 days); (2) $33,600; (3) $34,200; (4) $35,600.

F. L. Wagner, 1413 H St., N. W., Wash., (1) $37,500, (120 days); (2) deduct $134; (4) deduct $98. Noted Mar. 6.

D. C., Wash.—Forced Induced Draft Fans—Bureau Yards & Docks, Navy Dept., received bids Mar. 17, installing in Norfolk, Va. and Phila., Pa., Navy Yards.

(1) net price and time for 12 forced draft fans with their driving units, and accessories at Norfolk, Va.;

(2) net price and time for 2 forced draft fans with their driving units, and accessories at Phila., Pa.:

(3) net price and time for 2 induced draft fans with their driving units, flue connections and accessories at Norfolk, Va.;

(4) net price and time for 2 induced draft fans with their driving units, flue connections, and accessories at Philadelphia, Pa.;

(1a) and (2a) under these items bidders may submit proposals based on equipment called for in (1) and (2) respectively for alternative gear driven forced draft fans, from

H. E. Crook Co., 28 Light St., Baltimore, Md., (3) $14,240, (120 days); (4) $14,240, (120 days); (1a) $11,371, (120 days); (2a) $11,371, (120 days).

Carroll Electric Co., 714 12th St., N. W., (1) $11,240, (120 days); (2) $11,240, (120 days); (3) $12,500, (120 days); (4) $12,500, (120 days), from

Almiral Co., 1 Dominick St., New York City, (1) $10,505, (120 days); (2) $10,405; (3) $13,002; (4) $12,875; (1a) $10,647; (2a) $10,561.

Baker, Dunbar & Allen, 517 Stock Exch. Bldg., Phila., Pa., (1) $10,880, (120 days); (2) $10,880; (3) $22,870, (220 days); (4) $22,870; (1a) $12,250, (120 days); (2a) $12,250, (120 days).

Austin Heating Corp., 121 West 42nd St., New York City, (1) $10,875, (120 days); (2) $9875; (3) $13,875; (4) $13,425; (1a) $11,625; (2a) $10,625.

B. F. Sturtevant Co., 900 F St., N. W. (1) $11,336; (2) $11,336; (3) $10,948; (4) $10,948, (120 days); (1a) $8460; (2a) $8460. Noted Mar. 13 under "Norfolk, Va., and Phila., Pa."

Federal Government Work (Continued)

★**D. C., Wash.**—Turbo Alternators—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract furnishing and delivering turbo alternators, to Baker, Dunbar, Allen Co., Stock Exch. Bldg., Phila., $10,180 (90 days). Noted Jan. 16.

Va., Yorktown—Wooden Pier and Approach—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Mar. 17, building at Navy Mine Depot,

(1) net price and time for work complete in accordance with drawings and specifications;

(2) net price and time to be added to or deducted from net price and time for work complete as required in (1) for each 60 ft. of single track trestle approach more or less than length of approach specified;

(3) unit price to be added to or deducted from (1) and (2), for each pile in excess of or less than number required by drawings, and based on length specified for piles in zone to which it belongs;

(4) unit price to be added to or deducted from (1), (2) and (3) for each lineal foot of pile in excess of or less than specified length from

Boyle-Robertson Constr. Co., Evans Bldg., Wash., D. C., (1) $156,209, (120 days); (2) add $3400, deduct $2600; (3) add $80, deduct $65; (4) add $1.20 and deduct $1.

McLean Contg. Co., Fidelity Bldg., Baltimore, Md., (1) $179,775, (120 days); (2) add $3200, deduct $3000; (3) $50 to $75, depending on length of pile; (4) add $1, deduct $0.20.

C. Meads Co., 38 Park Row, New York City, (1) $204,200, (time as specified). Noted Feb. 27.

Miscellaneous

PROPOSED WORK

Drydock—Chelsea (Boston P. O.), Mass.—See "Industrial Works."

Coal Pocket—Bridgeport, Conn.—F. A. Cooper, archt., 1024 Main St., soon receives bids building 50 x 150 ft. timber coal pocket with large belt conveyor, concrete foundation, on Housatonic Ave., for Slosberg & Handleman, 149 Housatonic Ave. About $25,000.

Dam, etc.—New Haven, Conn.—City soon lets contract building rein.-con. dam and retaining walls on West River, south of Congress Ave. F. L. Ford, city engr.

Replacing Wires—Amsterdam, N. Y.—Adirondack Edison Electric Light Co. plans to place all wire, etc., on more prominent streets, underground in conduits.

Lighting System—Belmont, N. Y.—Town plans election soon to vote on $10,000 bonds to install electric lighting system.

Docks—Buffalo, N. Y.—Bd. Pub. Wks. soon receives bids building docks at foot of Main St. A. W. Kreinheder, comr.

Steam Roller—Whitesboro, N. Y.—Town appropriated $2500 to purchase steam road roller. H. B. Cary, town clk.

Garbage Reduction Plant, etc.—Newark, N. J.—City plans to build garbage reduction and 2 rubbish utilization plants. J. W. Costello, eng. superv.

Bulkhead, etc.—Baltimore, Md.—Baltimore Pearl Hominy Co., Howard and Ostend Sts., petitioned War Dept., Wash., D. C., for permission to build bulkhead varying from 260-375 ft. beyond existing harbor lines foot of Howard St. and Fort Ave. About $50,000.

Elimination Grade Crossing—Cleveland, O.—Comrs. Cuyahoga Co. had preliminary plans prepared for elimination of grade crossing on North Randall St. W. A. Stinchcomb, co. engr.

Piers—Cleveland, O.—City soon receives bids building two 250 ft. concrete piers. About $30,000. M. Newman, 618 City Hall, engr.

Monument—Long Prairie, Minn.—Comrs. Todd Co. soon let contract building soldiers and sailors monument, granite. About $15,000. C. H. Johnston, 715 Capital Bank Bldg., St. Paul, archt. Noted Mar. 6.

Garbage-Disposal Plant—Kansas City, Mo.—City plans to build garbage-disposal plant. Bonds for $400,000 voted for project. J. Cowgill, mayor.

Fairground Improvements — Billings, Mont.—Comrs. Yellowstone Co. will sell $25,000 bonds Mar. 31, to improve fairgrounds. C. E. Durland, co. engr.

Cables—Austin, Tex.—City appropriated $10,000 for placing cables in conduits laid by Water & Light Dept.

Dam—Klamath, Ore.—California-Oregon Power Co., 131 Leidesdorff St., San Francisco, Cal., plans to build dam across Link River in connection with use of large power plant at Copco, Cal.

Retaining Wall—Portland, Ore.—Portland Gas and Coke Co., Gasco Bldg., plans to build concrete retaining wall on St. Helens Rd. between moorings and Shell Oil Sta. About $15,000.

Pier—Redondo Beach, Cal.—City retained W. K. Barnard, engr., Central Bldg., Los Angeles, to prepare plans for restoring rein.-con. pleasure pier. About $75,000.

Cement, Sewer Pipe, etc.—Brantford, Ont.—City soon lets contract supplying cement, sewer pipe and crushed stone required by city during 1919. T. H. Jones, city engr.

Sea Wall—New Toronto, Ont.—City having plans prepared by James, Loudon & Hertzberg, engrs, Excelsior Life Bldg., Toronto, building 360 ft. seawall to protect pumping grounds. About $10,000. Work includes 500 ft. cofferdam and involves 450 cu.yd. rein.-con.

BIDS DESIRED

Ballast—New York, N. Y.—Until Mar. 25, by Pub. Serv. Comn., 49 Lafayette St., furnishing ballast for use in building rapid transit railroads.

Gasoline and Kerosene—New York, N. Y.—Until Mar. 24, by Bellevue and Allied Hospital, Dept. Pub. Charities, Correction, Health, Docks & Ferries, St. Cleaning, Parks, (Bronx, Manhattan and Richmond) at office of Central Purchase Com., Municipal Bldg., furnishing and delivering gasoline and kerosene.

Rebuilding Crib Bulkhead—New York, N. Y.—Until Mar. 27, by Park Bd., rebuilding upper portion of crib bulkhead along water front of Thomas Jefferson Park between 111th and 114th Sts.

Structural Steel—New York, N. Y.—Until Mar. 31, by Pub. Serv. Comn., 49 Lafayette St., erecting structural steel on Sect. 2, Routes Nos. 19 and 22, 7th Ave.-Lexington Ave. Rapid Transit R. R.

Truck and Miscellaneous Supplies — Schenectady, N. Y.—Until Mar. 26, by Bd. Contr. & Supply, furnishing and delivering 3 or 3½ ton truck and asphalt cold mixture for resurfacing.

Road Materials—Columbus, O.—Until Apr. 1, by State Highway Comn., for stone, gravel, slag and sand to be used in maintaining and repairing state roads during 1919; advertised in this issue.

Paving Materials—Detroit, Mich.—Until Mar. 25, by Dept. Purchases & Supplies, 1302 Real Estate Exch. Bldg., furnishing and delivering 1,000,000 paving bricks. J. A. Martin, comr.

Road Machinery—Jamestown, N. D.—Until Apr. 4, by A. Blewett, aud. Stutsman Co., furnishing four 8 ft. road drags, 2 sections 6 in. detachable blades; weight, 275-300 lbs.; 4 slip scrapers, 4½-5½ cu.ft. capacity, weight 100 to 150 lbs.; 4 road plows, 10-12 in. cut weight, 100-150 lbs.; 2 blade graders, four-wheel, 5-6 ft. blades; weight 750-900 lbs.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Insulating Rail—Brooklyn, N. Y.—Pub. Serv. Comn., 49 Lafayette St., New York City, received bids Mar. 17, for insulation of 3rd rail of Brooklyn Rapid Transit Co., from B. T. & A. J. Mack, 795 Gravesend Ave., $89,596; F. S. Julia Eng. Co., $96,700; L. H. Wood, $97,500.

★**Tractors—New York, N. Y.**—F. L. Dowling, pres. Manhattan Boro., let contract furnishing and delivering seven tractors, to Yorkville Motor Co., 1324 Lexington Ave., $8750. Noted Mar. 6.

★**Valves—New York, N. Y.**—N. J. Hayes, comr. water supply, gas and electricity let contract (a) furnishing, delivering, unloading, stacking and storing valves, (b) hydrants, to A. P. Smith Mfg. Co., Norman St., (a) $7845, (b) $28,574. Noted Feb. 27.

★**Steam Roller—Rome, N. Y.**—City let contract furnishing steam roller, to Buffalo-Springfield Roller Co., Kenton St., Springfield, O. About $3300.

Truck—Schenectady, N. Y.—Bd. Contr. & Supply received only bid furnishing and delivering 2 ton motor truck, from Benns & Visscher Co., 277 Dock St., $2275.

★**Steam and Heating Equipment—Thiells, N. Y.**—L. F. Pilcher, state archt., Capitol, Albany, let contract installing in proposed addition at Letchworth Village, to Merrill Co., 98 Granite St., Boston, Mass., $46,984. Noted Mar. 13 under "Industrial Works."

★**Underground Distributing System — Thiells, N. Y.**—L. F. Pilcher, archt., Capitol, Albany, let contract building underground distributing piping in female group tunnel, to Almirall & Co., 1 Dominick St., New York City, $29,242. Noted Mar. 13, under "Industrial Works."

Road Oil—Orange, N. J.—City received bids furnishing 100,000 gal. road oil, from Standard Oil Co., foot Claremont Ave., Jersey City, $0.0769 per gal.; Acme Rd. Co., 141 South St., Newark, $0.175 per gal.

★**Repairing River Bank—Wilmington, Del.**—Levy Court let contract repairing Delaware River bank between Delaware City and Port Penn, to Delaware River Dredging & Constr. Co. About $15,600.

★**Dock—Detroit, Mich.**—Parker Bros. Co., 15 Atwater West, let contract building 75 x 147 ft. rein.-con. storage dock on wood piling with 147 ft. frontage along Detroit River, at foot of St. Aubin St., to J. Ginzel Co., 404 Buhl Blk. About $30,000. Noted Dec. 5.

★**Pipes—Detroit, Mich.**—City let contract furnishing 800 pieces 24 in., 800 pieces 16 in., 2000 pieces 12 in. and 3500 pieces 8 in. c.i. pipes, to J. B. Clow & Son, Harrison St. Bridge, Chicago, $61.60 per ton.

★**Loading and Unloading Machinery—Duluth, Minn.**—Clarkson Coal Co., foot of Birch Ave., Rices Point, let contract installing machinery for loading and unloading coal at dock, to Mead, Morrison Mfg. Co.; installing electric convertor equipment, to Westinghouse Electric Co., 605 Providence Bldg. Total cost, $125,000.

Streets and Roads

PROPOSED WORK

Mass., Dighton—Town receives bids about May, widening and macadamizing 1½ mi. Elm, Tremont and Lincoln Sts., 18 ft. wide. About $33,000. H. F. Lane, clk.

Mass., Newton (Boston P.O.)—City having plans prepared by E. H. Rogers, city engr., widening, draining, grading and surfacing 15,000 ft. Dedham St., 80 ft. wide, to provide cut-off for motor traffic. About $145,000.

Conn., New Haven—City soon lets contract paving 7350 sq.yd. Boulevard; 3400 sq.yd. Fillmore St.; 8550 sq.yd. Chatham St.; 4040 sq.yd. Clinton Ave.; 3760 sq.yd. Goffe St.; 8380 sq.yd. Henry St.; 4280 sq.yd. Huntington St.; 5820 sq.yd. Pendleton St.; 3360 sq.yd. Winthrop Ave., all bituminous macadam; 2500 sq.yd. Day St.; 3930 sq.yd. Clark St.; 6070 sq.yd. Henry St.; 17,320 sq.yd. Howard Ave.; 2770 sq.yd. Humphrey St.; 15,400 sq.yd. James St.; 3660 sq.yd. Liberty St.; 11,550 sq.yd. Shelton Ave.; 3800 sq.yd. Spring St.; 7200 sq.yd. city area and 3000 sq.yd. trolley area Washington Ave., all sheet asphalt and national, on old macadam base; 5080 sq.yd. Cottage St., bituminous macadam and national on existing foundation; 5990 sq.yd. Humphrey St., batch concrete; 3200 sq.yd. Temple St., wood block on old concrete foundation; and 7500 sq.yd. Union Ave., sheet asphalt and national on new 6 in. foundation. F. L. Ford, city engr.

N. Y., Fulton—Bd. Pub. Wks. considering improving Gansevoort St., 20-30 ft. wide, cost, $15,573; 6th St., 20 ft. wide, $2956; Phillips St., 24 ft. wide, $14,085; 2nd St., 24 ft. wide, $23,913; Pine St., 24 ft. wide, $6156; 6th St., 16-24 ft. wide, $22,014; Van Buren St., 16 ft. wide, $8500; Highland St., 20 ft. wide, $11,106; South 4th St., $31,660; 4th St., 24 ft. wide, $8577; Academy St., 28 ft. wide, $4000; State St., 24 ft. wide, $4788; Pratt St., 24 ft. wide, $8910; Division St., 20 ft. wide, $2000; Worth St., 34 ft. wide, $10,260, all concrete; Buffalo St., 24 ft. wide, macadam, $1548.

N. Y., Ogdensburg—City plans to build concrete pavement on Lake St. through Main St. to connect with brick highway on Gibb St. G. A. Tate, city engr.

N. Y., Troy—City plans to macadamize 3000 ft. of boulevard in Spring St. entrance to city, curb and pave Lake Ave. from Hoosick St. to city line, grade and pave Oakwood Ave. from Northern turnpike to city line, grade and resurface St. Joseph St. and Van Emery Ave. and resurface Hutton St. from 7th Ave. to 12th St. A. E. Roche, city engr.

N. Y., Utica—Bd. Contr. & Supply soon lets contract resurfacing John St. from Mary to Rutger Sts. Work involves 70,000 sq.yd. resurfacing, 200 sq.yd. asphalt pavement, 50 tons binders, etc. G. D. Shay, city clk.

N. J., Jersey City—Bd. Chosen Freeholders soon receives bids improving Paterson Turnpike, granite block.

Pa., Avon—Town election April 1, to vote on $60,000 bonds to improve 30 mi. road.

Streets and Roads (Continued)

Pa., McKeesport—City plans to issue $375,000 bonds to improve various streets. L. F. Savage, Peoples Bank Bldg., city engr.

Pa., Pittsburgh—City passed ordinance to grade, pave and curb 3200 ft. Warrington Ave., from Montooth to Liberty Aves., 40 ft. wide, involving 10,660 sq.yd. stone block on 6 in. concrete base, 6565 lin.ft. curbing, 13,820 cu.yd. earth excav., 19,050 cu.yd. embankment and 1595 cu.yd. trench excav. About $135,000. N. S. Sprague, city engr.

Pa., Pittsburgh—Comrs. Allegheny Co. soon receive bids grading and building with Telford macadam, 10,500 ft. New England Rd. from Duquesne and Dravosburg. Improved rd. near Coal Valley Sta. along Pine Run to village of New England, in Mifflin Twp., 16 ft. wide. R. V. Warren, co. engr.

Del., Wilmington—City considering paving 1 block 25th St., 5 blocks Delaware Ave., 1 block Grant Ave., 6 blocks Washington St., 1 block West St., 2 blocks 20th St., 1 block 19th St., 2 blocks McCabe Ave., 2½ blocks Van Buren St., 1 block Harrison St., 2 blocks 27th St., 2 blocks 20th St., 2 blocks Poplar St., 1 block 14th St., 1 block 23rd St., 1 block Hamilton St. and 1½ blocks Madison St. E. M. Hoopes, city engr.

W. Va., Morgantown—Cass Dist., Monongalia Co., election Apr. 12 to vote on $300,000 bonds to build 3 main roads in district. Total amount of expenditure for road work, $428,000. W. S. Down, co. engr.

S. C., Anderson—Anderson Co. election May 15, to vote on $1,450,000 bonds to build various roads.

S. C., Chester—Comrs. Chester Co. plan to issue $450,000 bonds to build roads.

S. C., Chesterfield—Comrs. Chesterfield Co. plan to issue $65,000 bonds to build roads in 2 townships.

S. C., Gaffney—Comrs. Cherokee Co. plan to issue $225,000 bonds to build roads.

S. C., Greenville—Comrs. Greenville Co. plan to issue $960,000 bonds to build roads.

S. C., Greenwood—Comrs. Greenwood Co. plan to issue $600,000 bonds to build roads.

S. C., McCormick—Comrs. McCormick Co. plan to issue $175,000 bonds to build roads.

S. C., Pickens—Comrs. Pickens Co. plan to issue $250,000 bonds to build roads.

Ga., Americus—Sumter Co. election Apr. 2 to vote on $500,000 bonds to pave various roads. Federal Government will appropriate like amount if election carries.

Ga., Atlanta—City soon lets contract paving 9508 sq.yd. South Pryor St., 4795 sq.yd. Whitehall St., 20,203 sq.yd. Juniper St. 24,130 sq.yd. Marietta St. and 7468 sq.yd. Simpson St. Bids will be accepted on granite block or other block pavement, for car track area; sheet asphalt, asphalt concrete, wood blocks, vitrified pavement, concrete or other meritorious pavements for sides. H. L. Collier, city engr.

Ga., Macon—Bibb Co. voted $700,000 bonds to build various roads. Federal Government will appropriate like amount. Noted Jan. 9.

Ala., Attalla—City plans to pave 1 mi. 5th Ave.

Ala., Huntsville—Comrs. Madison Co. plan to build 8 mi. Big Cove Pike from here to Owens Cross Roads. About $58,685. County will appropriate $23,432 toward cost. State and Federal Government will pay balance.

La., Houma—Terrebonne Parish election Apr. 1 to vote on $150,000 bonds to build highway from here to Assumption Co. line. Federal Government and State Aid will be asked to appropriate toward cost.

La., Shreveport—City plans to pave various streets. Work involves 80,000 sq.yd. asphaltic concrete. H. E. Barnes, city engr.

O., Cincinnati—City plans to pave Central Ave. from Brighton to Liberty Sts., bitoslag. About $110,000. F. S. Krug, city engr. Noted Oct. 31.

O., Cincinnati—City plans to regrade and pave river front and public landing, with granite blocks on concrete foundation. F. Krug, city engr.

O., Cincinnati—Peters Realty Co., Mercantile Library Bldg., plans to grade and pave 3,000 ft. of streets in new subdivision on Delta Ave., 50 ft. wide, waterbound macadam. About $30,000. C. A. Peters, Mercantile Library Bldg., engr.

O., Cleveland—City plans to pave East 17th St. with brick or asphalt; Superior Ave. and Euclid Ave. from Pub. Sq. to East 9th St., also resurface Chester Ave. R. Hoffman, city engr.

O., East Liverpool—City plans to pave Pennsylvania and St. Clair Aves. and Lincoln Highway. A. George, city engr.

O., Toledo — Comrs. Lucas Co. receive bids about May 15, grading and paving 1.87 mi. Key St., 16 ft. wide, 1-2-3 concrete, 7 in. thick, involving 5403 cu.yd. clay excav.; 2.36 mi. Black Rd., 14 ft. wide, either 2 course waterbound macadam or 1-2-3½ concrete 7 in. thick, 19,500 sq.yd. concrete or waterbound macadam and 11,000 cu.yd. clay excav.; 4.39 mi. Sylvania-Alexis Rd. from Trilby to Detroit Ave., 16 ft. wide, 1-1½-3 concrete 7 in. thick, 41,700 sq.yd. pavement, 23,500 cu.yd. sand and clay excav. cost $119,025; 1.02 mi. Bury Rd., 16 ft. wide, 2 course waterbound macadam, bottom 7½ in., top 4½ in. loose measurement, 9500 sq.yd. pavement, 3411 cu.yd. clay excav., $17,752; 1.49 mi. Bennett Rd. from city limits to Sylvania-Alexis Rd., 16 ft. wide, 1-1½-3 concrete, 7 in. thick, 14,500 sq.yd. pavement and 5519 cu.yd. clay excav., $39,700; 1.51 mi. Yondata Rd. from Cordoroy to Jerusalem Rds., 16 ft. wide, 2 course waterbound macadam, 14,300 sq.yd. pavement and 2011 cu.yd. clay excav., $28,655; 1.31 mi. Lyon Rd., 16 ft. wide, 2 course waterbound macadam, 7½ in. bottom, 4½ in. top, loose measurement, 12,500 sq.yd. pavement and 3764 cu.yd. clay excav., $25,566. C. L. Road, co. engr. Noted Dec. 5, 1918.

O., Youngstown—Mahoning Co. plans to pave and grade 1.3 mi. Damascus, Berlin-Pricetown Rd., Milton Twp., 14 ft. wide, macadam. About $12,000.

Mich., Detroit—City soon receives bids paving and grading Lycaste Ave., 26 ft. wide, cost $19,274; Tyler Ave., 24 ft. wide, $15,640; Monterey Ave., 24 ft. wide, $15,226; Buena Vista Ave., 24 ft. wide, $23,414; Leslie Ave., 24 ft. wide, $25,806; Waverly Ave., 24 ft. wide, $15,686; Grand Ave., 24 ft. wide, $15,594, asphaltic concrete on 6 in concrete base. Berea or Medina curbing. C. W. Hubbell, city engr.

Mich., Detroit—City soon receives bids grading, curbing and paving Waterloo Ave. from Connors to Drexel Aves., 26 ft. wide, cost, $15,364; Drexel Ave. from Mack to point 1112 ft. south, 26 ft. wide, $8550; Colby Ave. from Russel St. to Detroit & Bay City R.R., 26 ft. wide, $8550, asphaltic concrete on 6 in. concrete base, Berea or Medina curbing. C. W. Hubbell, city engr.

Mich., Detroit—Dept. Pub. Wks. soon lets contract paving and grading with 1 course concrete, alley, No. 967, between Garland, St. Clair, Charlevoix and Goethe Aves., 20 ft. wide, involving 795 cu.yd. excav., 2326 lin.ft. concrete, 2078 lin.ft. 2 x 6 in. retaining plank, 36 lin.ft. retaining stone;

No. 968, "T" alley between 2nd and Cass Aves. and Peterboro and Charlevoix Sts., 20 ft. wide, 679 cu.yd. excav., 1777 sq.yd. concrete, 1139 lin.ft. 2 x 6 in. retaining plank;

No. 969, "H" alley between National Trumbull, Elm and Ash Sts., 18 and 20 ft. wide, 586 cu.yd. excav., 1581 sq.yd. concrete, 1256 lin.ft. 2 x 6 in. retaining plank;

No. 970, "T" alley between Rivard, Russell, and Hancock Sts. and Warren Ave., 20 ft. wide, 319 cu.yd. excav., 1114 sq.yd. concrete, 988 lin.ft. 2 x 6 in. retaining plank;

No. 971, west and parallel to Avery Ave., Hancock St. to Warren Ave., 20 ft. wide, 210 cu.yd. excav., 795 sq.yd. concrete, 612 lin.ft. 2 x 6 in. retaining plank, 20 lin.ft. retaining stone;

No. 972, north and parallel to Hobart St., easterly to north and south alley, 20 ft. wide, 191 cu.yd. excav., 578 sq.yd. concrete, 516 lin.ft. 2 x 6 in. retaining plank, 28 lin.ft. retaining stone;

No. 973, "L" alley between Dunedin and 12th Sts. and Bethune Ave. and La Salle Gardens south, 10 ft. wide, 119 cu.yd. excav., 391 sq.yd. concrete, 601 lin.ft. 2 x 6 in. retaining plank and 24 lin.ft. retaining stone;

No. 974, "east and west" alley between 14th and 12th Sts. and Delaware and Seward Aves., 18 ft. wide, 712 cu.yd. excav., 1725 sq.yd. concrete, 1645 lin.ft. 2 x 6 in. retaining plank, 18 lin.ft. retaining stone;

No. 975, alley between John R. and Brush Sts., Baltimore and Milwaukee Aves., 20 ft. wide, 604 cu.yd. excav., 1492 sq.yd. concrete, 1180 lin.ft. 2 x 6 in. retaining plank;

No. 976, alley between Trumbull, Lincoln, Brainard and Selden Aves., 18 ft. wide, 523 cu.yd. excav., 1198 sq.yd. concrete, 869 lin.ft. 2 x 6 in. retaining plank;

No. 977, alley between Commonwealth Trumbull, Kirby and Hudson Aves., 20 ft. wide, 307 cu.yd. excav., 978 sq.yd. concrete, 820 lin.ft. 2 x 6 in. retaining plank;

No. 978, alley between Riopelle, Orleans, Clinton and Mullet Sts., 20 ft. wide, 375 cu.yd. excav., 889 sq.yd. concrete, 963 lin. ft. 2 x 6 in. retaining plank. C. W. Hubbell, city engr.

Ill., Chicago—Cook Co. receives bids in April building 227,300 ft. Chicago-Milwaukee-Waukegan Rd., 18 ft. wide, involving 45,559 sq.yd. concrete or bituminous concrete on 6 in. concrete base, 12,229 cu.yd. excav. and 234 cu.yd. concrete in culverts and bridges, cost $136,000; also 10,250 ft. north of Niles Village, 18 ft. wide, involving 20,626 sq.yd. concrete or bituminous concrete on 6 in. concrete base, 4635 cu.yd. earth excav., and 154 cu.yd. concrete in culverts and bridges; cost cement concrete, $50,000; bituminous concrete, $65,000. (Alternate bids on different types of pavement.) B. D. Barker, County Bldg., supt. highways. Noted Apr. 18, 1918.

Ill., Rockford—Bd. Supervs., Winnebago Co., plans to pave Charles St. Rd. from here to Boone Co. line. About $125,000.

Wisconsin—Wisconsin Highway Comm., Green Bay, receives bids about Apr. 20, grading and surfacing with concrete 5½ mi. Oshkosh-Fond du Lac Rd., 16 ft. wide. Work involves 45,000 sq.yd. 8 in. concrete and 15,000 cu.yd. grading. About $110,000. Noted Mar. 13 under "Fond du Lac."

Wis., Green Bay—City soon receives bids paving 37,000 sq.yd. Maple Ave. and Chicago St., 30 ft. wide. Bids will be taken on 5 kinds of pavement. W. Reed, city engr.

Wis., Oshkosh—Comrs. Winnebago Co. receive bids about Apr. 15 grading, draining and surfacing with concrete 1½ mi. Oshkosh Fond du Lac Rd., 16 ft. wide, cost $30,000; ¾ mi. Neenah Appleton Rd., 16 ft. wide, $12,000; 1 mi. Oshkosh Winneconne Rd., 16 ft. wide, $20,000.

Wis., Oshkosh—Comrs. Winnebago Co. receive bids about May 15, grading, draining and surfacing with concrete 1 mi. Oshkosh Ripon Rd., 16 ft. wide, cost, $21,000; 2 mi. Oshkosh Wanpun Rd., 16 ft. wide, $35,000.

Wis., Oshkosh—Comrs. Winnebago Co. receive bids about June 1, grading, draining and surfacing with concrete 5 mi. Oshkosh Neenah Rd., 16 ft. wide. About $160,000.

Wis., Superior—City soon lets contract paving with concrete Weeks Ave. between 18th and 21st Sts., 24 ft. wide. About $10,000. W. J. Patterson, secy.

Ia., Hartley—City receives bids about Apr. 11 grading, curbing and guttering about 83 blocks, sheet asphalt, asphaltic concrete, bitulithic, brick block, or one and two course concrete. H. R. Green, Cedar Rapids, engr. Noted Feb. 27.

Ia., Hendrick—Town receives bids about Apr. 10 grading, curbing and guttering 23 blocks, sheet asphalt, asphaltic concrete, bitulithic, brick block or concrete. H. R. Green, Cedar Rapids, engr.

Ia., Iowa City—City soon lets contract paving 3 mi. River to River Rd., 20-30 ft. wide, monolithic brick, concrete, brick or bluestone. About $100,000. Noted Dec. 19.

Minn., Brainerd—Comrs. Crow Wing Co. plan to improve state road between here and Mille Lacs Co. line. About $75,000.

Kan., Peabody—City plans to pave 3.5 mi. various streets.

Neb., Geneva—City receives bids about Apr. 15 paving 25,000 yd. in Dist. 1, asphaltic concrete or brick. Grant & Fulton, 505 Bankers Life Bldg., Lincoln, engrs.

Neb., Lincoln—City plans to pave 1800 ft. 26th St., Dist. 299, 30 ft. wide; resurface 2000 ft. 17th St., Dist. 71, 40 ft. wide. Work involves 6040 sq.yd. vertical fibre on 5 in. concrete base, 7200 sq.yd. bituminous macadam; 3350 lin.ft. 6 x 20 in. concrete curbing; 100 cu.yd. earth excav. About $31,500. A. Dobson, city engr.

Neb., McCook—City having plans prepared by Archer & Stevens, engrs., 609 New England Bldg., Kansas City, Mo., paving 25,000 yd. with brick or concrete.

N. D., Grand Forks—Grand Forks Co. plans to build 10 mi. concrete road. Cost $15,000 per mile.

Mont., Eureka—City having estimates made for paving lower Dewey Ave., cedar blocks and crushed rock surface. A. L. Jacqueth, Kalispell, engr. About $10,000.

Mont., Great Falls—City having estimates made and plans prepared by L. B. Evenson, city engr., paving 3rd Alley north from 10th to 13th Sts., concrete.

Mont., Whitefish—City plans to build 2 mi. concrete sidewalk, 5 ft. wide. About $10,000. W. K. Trippe, Whitefish, engr.

Ark., Forest City—City soon lets contract paving 7 mi. of various streets, penetration asphalt or concrete. Lund & Hill, 527 Southern Trust Bldg., Little Rock, engrs.

Tex., Hillsboro—Comrs. Hill Co. plan to build Highway No. 1. About $900,000.

Okla., Pauls Valley—City having plans prepared by W. E. Moore, engr., 1006 Oil Exch. Bldg., Oklahoma, for paving various streets. About $80,000.

Streets and Roads (Continued)

Idaho. St. Anthony—City passed ordinance to pave, surface and drain Fremont and Washington Aves., Center, Bridge and Main Sts., 50-68 ft. between curbs, concrete, asphalt or bitulithic. About $152,000. J. L. Nelson, city clk.

Wash., Wenatchee—Chelan Co. considering building road from Chelan to Corvaley Canyon. About $40,000.

Oregon—State Highway Comn., Salem, rejected bids macadamizing 4.9 mi. Pacific Highway, from Wolf to Grave Creek, Josephine Co.; grading and macadamizing 2.7 mi. Yamhill-Nestucca Highway, Grande Ronde Sect., Yamhill Co. H. Nunn, state highway engr. Noted Mar. 6.

Ore., Pendleton—Street Com. plans to extend Alta St. through to Pine St. and pave Garfield St. from Jackson to Martin Sts.

Cal. Fresno—Fresno Co. election May 6, to vote on $4,600,000 bonds to pave various roads. L. Aldrich, engr. Noted Feb. 20.

Cal., San Diego—City having plans prepared by G. Cromwell, city engr., paving several miles of streets and ¼ mi. of viaduct over railway tracks on Tide St.

Cal., San Francisco—Sts. Com. recommended paving Alabama St. between Mariposa and 18th Sts., Mariposa St. between Harrison and Alabama Sts. and between Alabama and Florida Sts., crossing of Mariposa and Alabama Sts., 17th St. between Alabama and Florida Sts., and between Florida and Bryant Sts., Mariposa St. between Hampshire and Bryant Sts. and crossing of Mariposa and York Sts. W. G. Hunt, city engr.

Quebec—Dept. Pub. Wks., Post Office Bldg., Quebec, soon receives bids draining and macadamizing 65 mi. Hull-Maniwaki Provincial Highway in Ottawa Co. About $100,000. L. A. Vallee, c/o Dept. Pub. Wks., engr.

Que., Matane—City having plans prepared for macadamizing 10 mi. road. M. Henry, Ottawa, Ont., engr.

Ont., Windsor—City plans to pave Giles Blvd. About $60,000. M. E. Bryan, Windsor, engr.

BIDS DESIRED

Massachusetts—Until Mar. 25, by State Highway Comn., Boston, grading, draining and surfacing 25,400 ft. state highway in Concord, Acton and Littleton Twps., 22-26 ft. wide; 23,000 ft. in Becket Twp., 24 ft. wide; 17,200 ft. in Dalton and Windsor Twps., 24 ft. wide, gravel. A. W. Dean, 212 State House, Boston, engr.

Mass., Boston—Until Apr. 2, by Comn. Waterways & Pub. Lands paving and draining 5500 ft. Drydock Ave. and Harbor St., South Boston, 40 ft. wide, involving 24,500 sq.yd. 5 in. granite block, on 6 in. gravel base, sanded joints, 5950 lin.ft. granite and 2850 lin.ft. timber curbing, 2900 sq.yd. brick sidewalks on gravel base, 26 catch basins, 6000 lin.ft. tile drain on concrete base. F. W. Hodgdon, 473 State House, engr. Noted Jan. 16.

R. I., Central Falls (Pawtucket P. O.)—Until Mar. 31, by city, paving 2200 sq.yd. Broad St., granite block on concrete base. About $12,000. Noted June 6.

Conn., New Haven—Until Mar. 24, by city paving 3000 sq.yd. West St.; 13,710 sq.yd. Maple St., bituminous macadam; 10,320 sq.yd. Park St., sheet asphalt and national on old macadam base. F. L. Ford, city engr.

New York—Until Apr. 4, by State Highway Dept., 55 Lancaster St., Albany, improving roads in following counties:

Allegany Co., Cuba-Friendship and Wellsville-Andover Rds., involving 810 tons broken stone, 74,500 gal. bituminous material, 73,876 sq.-yd. broken stone for surfacing, cost $28,551.

Cayuga Co., Cato-Meridian-Baldwinsville Rd., Part 4, 1210 cu.-yd. excav., 53,100 gal. bituminous material, 4780 tons broken stone, $44,040.

Fulton and Montgomery Counties, Gloversville-Meco-Phelps Rd., Old Plank Rd., Mayfield-Northville Rd., Part 2, Gloversville-West Perth Rd., Fort Plain-Hessville-Sprout Brook Rd., Fultonville-Glen Rd., Glen-Charleston Rd. and Akin-Johnstown Rd., Part 1, 100 cu.-yd. gravel, 300 tons broken stone, 20,000 gal. bituminous material, $8904.

Livingston Co., Kuders Corners-Springwater Town Line Rd., Livonia-Conesus Town line Rd. and Nunda-Dalton Rd., 400 cu.-yd. gravel, 430 tons broken slag, 32,000 gal. bituminous material, $7666; 1.64 mi. Mt. Morris-Genesee Rd. and Mt. Morris Village Rd., 8 ft. wide, 1500 cu.-yd. embankment, 520 tons broken stone, 270 cu.-yd. bituminous macadam, 2570 cu.-yd. cement concrete, 7500 gal. bituminous material, $48,940.

Livingston and Ontario Counties, Dansville-Mt. Morris Rd., Part 6, Geneva-Halls Corners Rd., Stanley-Geneva Rd., Wayland-Dansville Rd., Part 2, County Line-Dansville Rd., Cohocton-Naples Rd., Part 2 and Craig Colony Rd., 300 tons broken stone, 100 cu.-yd. gravel, 20,000 gal. bituminous material, $8904.

Monroe and Orleans Counties, Five Corners-Kuckville Rd., Part 2, Clarendon-Holley Rd., Part 1, County Line Rd., Holley-Ridge Rd., Monroe-Orleans County Line Rd., 100 cu.-yd. gravel, 300 tons broken stone, 20,000 gal. bituminous material, $9391.

Ontario Co., Victor-Mendon Rd., Part 1, and Canandaigua-Victor Rd., 2180 cu.-yd. broken stone, 2100 cu.-yd. bituminous macadam, 6400 cu.-yd. embankment, 55,600 gal. bituminous material, $53,044.

Otsego Co., Morris-Gilbertsville Rd., Part 2, and Gilbertsville Village Rd., 200 lin.-ft. 12 in. vitr. clay pipe, 1000 lin.-ft. 6 in. vitr. sewer pipe, 49 cu.-yd. concrete, 270 lb. reinforcement, 1910 cu.-yd. cement concrete pavement, $37,063.

Albany Co., Schenectady-Guilderland Rd., 1100 cu.-yd. excav., 1500 tons broken stone, 3320 cu.-yd. cement concrete, $58,000.

Schuyler, Tioga and Tompkins Counties, Ithaca-Dryden Rd., Part 2, Newark Valley-Berkshire Rd., Part 2, New Valley-Berkshire Rd., Part I, Spencer-Candor Rd., Part 2, Enfield Falls-Enfield Center Rd., Montour Falls-Alpine Rd., Part 1, Alpine-Cayuta Rd., Part 1, Mecklenburg-Perry City Rd., Ithaca-Esty Glen Rd., Waverly-Owego Rd., Part 2, Ithaca-Danby Rd., Part 3, Cayuta-Newfield Rd., Perry City-Trumansburg Rd., 878 tons sand, 100,380 gal. bituminous material, $25,330.

Steuben Co., Big Creek Rd., Parts 1 and 2, 2500 cu.-yd. excav., 200 lin.-ft. 6 in. vitr. clay drain, 100 tons broken stone, 100 cu.-yd. field or quarry stone, 2340 cu.-yd. bituminous macadam, 63,200 gal. bituminous material, $46,787; Wayland-Dansville Rd., Part 1, 150 cu.-yd. excav., 300 lin.-ft. 6 in. vitr. clay under drain, 100 tons broken stone, 100 cu.-yd. field or quarry stone, 2340 cu.-yd. bituminous macadam, 63,200 gal. bituminous material, $36,262; Bath-Hammondsport Rd., Part 1, 200 cu.-yd. excav., 600 lin.-ft. 6 in. vitr. tile drains, 200 tons broken stone, 100 cu.-yd. field or quarry stone, 2920 cu.-yd. bituminous macadam, 78,900 gal. bituminous material, $50,189.

Sullivan Co., Jeffersonville-Kenoza Lake-Fosterdale Rd., 300 ft. 6 in. vitr. clay drain, 8 tons c. i. pipe, 15 cu.-yd. concrete, 2590 cu.-yd. bituminous macadam, 69,800 gal. bituminous material, $49,545.

Ulster Co., Kingston-Ellenville Rd., Part 3, 1400 cu.-yd. excav., 1050 cu.-yd. broken stone, 300 cu.-yd. field or quarry stone, 2500 cu.-yd. bituminous macadam, 67,500 gal. bituminous material, $40,771.

New York—Until Apr. 3, by E. Duffy, comr., state highway dept., 55 Lancaster St., Albany, repairing roads in following counties:

Albany Co., River Rd., involving 6100 cu.yd. embankment, 5300 tons broken stone, 2040 cu.yd. bituminous macadam, 55,000 gal. bituminous material, cost, $32,933.

Broome Co., Fenton-Chenango-Loupath Rd., 14,000 cu.yd. excav., 100 lin.ft. 6 in. vitr. clay underdrain, 5 ton c. i. pipe, 125 cu.yd. concrete, 1000 lb. metal reinforcement, 1150 cu.yd. field or quarry stone, 1860 cu.yd. bituminous macadam, 27,700 gal. bituminous material, $44,254.

Delaware Co., Delhi-Middletown Rd., 3000 cu.yd. excav., 1000 lin.ft. 6 in. vitr. clay pipe, 20 cu.yd. concrete, 200 tons iron and steel, 300 cu.yd. broken stone, 2000 cu.yd. field or quarry stone, 337 cu.yd. bituminous macadam, 51,000 gal. bituminous material, $53,545.

Erie Co., Akron-Tonawanda Creek Rd., 1600 cu.yd. excav., 600 ft. 6 in. vitr. tile drain, 200 tons broken stone, 100 cu.yd. field or quarry stone, 2920 cu.yd. bituminous macadam, 78,900 gal. bituminous material, $73,484; Transit Rd., Part 2, 2000 cu.yd. embankment, 18,800 sq.yd. cement concrete, 169,000 sq.ft. metal reinforcement, $53,343.

Genesee Co., East Pembroke-Batavia Rd., 6100 cu.yd. mbankment, 5300 tons broken stone, 2040 cu.yd. bituminous macadam, 55,000 gal. bituminous material, $59,820.

Hamilton Co., Long Lake-Grove Rd., 900 cu.yd. excav., 100 lin.ft. 6 in. vitr. tile drain, 550 cu.yd. broken stone, 100 cu.yd. field or quarry stone, 3000 cu.yd. bituminous macadam, 70,400 gal. bituminous material, $37,947.

Herkimer Co., surface treating Manheim Center-Salisbury Center Rd., Salisbury Center-Burrells Rd., Burrells-Middleville Rd., Little Falls-Fairfield Rd., Richfield Springs-Warren-Springfield Rd., Little Falls-Montgomery Co. line Rd., Ilion-Cedarville Rd., Jordanville-Richfield Springs Rd., Mohawk-Paines Hollow Rd., Paines Hollow-Jordanville Rd., 3135 tons broken stone, 117,950 gal. bituminous material, $34,903.

Monroe Co., Latta Rd., 900 tons broken slag, 40,000 gal. bituminous material, 3080 tons bituminous macadam, $28,573; Clifton Rd., Parts 1 and 2, Chili Rd., Part 2, Honeoye Falls-Rush Rd., West Henrietta-West Rush Rd., Ballantyne Bridge-Genesee Valley Park Rd., 440 tons broken stone, 460 tons broken slag, 35,400 gal. bituminous material, $9398.

Onedia Co., Utica-Bridgewater Rd., 150 cu.yd. excav., 100 ft. 6 in. vitr. tile drain, 60 tons broken stone, 180 cu.yd. field or quarry stone, 240 tons broken stone, 4210 tons bituminous macadam, 63,000 gal. bituminous material, $40,420.

Onondaga Co., Baldwinsville-Cicero Rd., 400 cu.yd. excav., 31,700 gal. bituminous material, 2360 tons broken stone, 200 cu.yd. field or quarry stone, $17,578; Cemetery Rd., 300 cu.yd. excav., 200 sq.yd. concrete gutter, 50 cu.-yd. field or quarry stone, 16,800 gal. bituminous material, 1360 tons broken stone, $9844; Phoenix-Syracuse Rd., 500 cu.yd. excav., 30 cu.yd. concrete, 38,550 sq.-yd. bituminous macadam, 81,000 gal. bituminous material, $20,064; Marietta-Marcellus Rd., 200 cu.yd. excav., 19,540 sq.yd. bituminous macadam, 39,500 gal. bituminous material, 25 cu.yd. concrete, $33,349.

Saratoga Co., Ballston-Ballston Lake Rd., Part 2, 1450 cu.yd. broken stone, 34,880 sq.yd. macadam, 6100 cu.yd. concrete pavement, $82,863; advertised in this issue.

N. Y., Buffalo—Until Mar. 25, by A. G. Hinkley, clk. bd. supervs. Erie Co., building following county aid town roads; part 3 Pontiac-Derby Rd., part 3 Delaware Ave. and part 2 Rapids Rd. Noted Feb. 6.

N. Y., Buffalo—Until Mar. 28, by Dept. Pub. Wks., grading, opening gutters, rounding roadways and surfacing with hard material unpaved streets, etc. A. W. Kreinheder, comr.

N. Y., Buffalo—Until Mar. 25, by A. G. Hinkley, clk. bd. supervs. Erie Co., building Center St. Rd. part 3, county aid town highway.

N. Y., New York—Until Mar. 24, by F. L. Dowling, pres. Manhattan Boro., regulating and repaving granite block pavement on concrete foundation, roadway of Worth, 28th and Dyckman Sts. and 2nd Ave.

N. Y., New York—Until Mar. 28, by F. L. Dowling, pres. Manhattan Boro., regulating, regrading and paving roadway, granite block on concrete foundation, building sewers, inlets and basins, in Park Ave., from 40th to 42nd Sts., East 41st St. from Park Ave. to point east.

New Jersey—Until Apr. 9 by State Highway comn., Broad St. Bank Bldg., Trenton, paving 54,386 sq.yd. State Highway No. 6, Millica Hill-Mantau Sect., Gloucester Co., concrete surface. A. L. Grover, clk. Noted Feb. 6, advertised in this issue.

N. J., Kearney—Until Mar. 25 by Town Council, repairing bitulithic pavement on Kearney Ave. between Erie R.R. and Quincy Ave.

N. J., North Bergen—Until Mar. 25 by Town Council, improving 23rd St. from Hudson Blvd. to New Durham Ave., also River, Jefferson, Lincoln and Ferry Sts. and Liberty Rd., granite and asphalt. About $25,000. Noted Jan. 9.

Pa., Clarksville—Until Apr. 10, by A. M. Custer, boro. clk., laying about 1300 lin.ft. waterbound macadam and one course concrete pavement, 16 ft. wide.

Pa., New Essington (Eddystone P. O.)—Until Mar. 25, by Albright & Mebus, engrs., 907 Land Title Bldg., Phila., building sidewalks, curb and gutter paving, building and connecting storm water inlets and grading and macadamizing roadways in connection with housing operation of Westinghouse Electric & Mfg. Co., here.

Pa., Stony Creek (Johnstown P. O.)—Until Mar. 24, by A. C. Roberts, twp. secy., rebuilding 6000 ft. Solomon Run Rd. with vitr. fire clay brick on concrete foundation. O. P. Thomas, twp. engr.

Md., Baltimore—Until Mar. 26, by Bd. Awards, for Contr. 158, improving Frank and St. Paul Sts., involving 13,590 sq.yd. sheet asphalt, 800 sq.yd. vitr. block, 480 sq. yd. granite block redressed; Contr. 159, Pratt, Fayette, McHenry, Cole, Eagle and Bentalou Sts., involving 47,950 sq.yd. sheet asphalt, 3550 sq.yd. vitr. block, 180 sq.yd. granite block redressed; Contr. 160, Fairmount Ave., Lexington and St. Matthews Sts., involving 19,485 sq.yd. sheet asphalt, 1865 sq.yd. vitr. block and 2405 sq.yd. granite block redressed. S. C. Rowland, chn.; advertised in this issue.

Streets and Roads (Continued)

W. Va., Middlebourne—Until Apr. 10, by Comrs. Tyler Co., grading and surfacing 2.5 mi. road, 16 ft. wide, with bituminous asphalt macadam. About $45,000. P. P. Berkley, engr.

N. C., Durham—Until Apr. 2, by city, grading, curbing and paving 30,000 sq.yd. Main St. from Fuller St. to Alston Ave. H. W. Kueffner, city engr.; advertised in this issue.

N. C., Raleigh—Until Apr. 1, by Comrs. Wake Co., building Raleigh-Cary Highway. About $130,000 available. C. M. Miller, co. engr. Noted Mar. 6.

S. C., Bamberg—Until Apr. 2, by Comrs. Bamberg Co., grading and surfacing with sand clay 12.17 mi. Columbia-Savannah Highway, from New Bridge to Beaufort. Bridge, involving 24,000 cu.yd. common excav., 14,000 cu.yd. clay excav., etc.

Miss, Tunica—Until Apr. 14, by Comrs. Tunica Co., grading, graveling and draining 13 mi. roads in Rd. Dist. No. 3, 9 ft. wide. Bids to be received separately on (1) furnishing 20,000 tons gravel, (2) hauling, surfacing and building roads. L. W. Mashburn, Clarksdale, engr.

Miss., Tylertown—Until Apr. 5, by Comrs. Walthall Co., building 16.23 mi. Federal Aid Rd. No. 20 (State Trunk Rd.) between Natchez and Mobile, Ala. Work involves 96,339 cu.yd. grading, 140 cu.yd. concrete, 19,108 cu.yd. 1 mi. haul, 16,221 cu.yd. 1-2 mi. haul, and 1700 lin.ft. culvert pipe.

Tenn., Johnson City—Until Apr. 14, by Washington Co. Good Roads Comn., building 12.5 mi. macadam road, 14 ft. wide, 24 ft. roadway and 16.5 mi. macadam road, 10 ft. wide, 18 ft. roadway. Work involves rein.-con. drainage structure, 200,000 sq.yd. macadam, 6.5 in. thick after compaction, 100,000 cu.yd. excav., 5500 ft. concrete or corrugated metal pipe ranging from 12-48 in. diam., 2250 cu.yd. concrete and 70,000 lbs. steel. F. W. Webster, co. engr.

Ohio—Until Mar. 28, by State Highway Comn., Capitol, Columbus, building roads in following counties:

Columbiana Co., Sect. "Q-2," Cleveland-East Liverpool Rd., .98 mi., grading, constructing bridges and culverts and paving with concrete, cost, $37,040.

Gallia Co., Sect. "H," Ohio River Rd., .56 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $20,098.

Greene Co., Sect. "K," Columbus-Cincinnati Rd., 3.83 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $61,067.

Guernsey Co., Sect. "S," Steubenville-Cambridge Rd., 1.01 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $30,690.

Hancock Co., Sect. "G," Findlay-Kenton Rd., 2.01 mi. grading, constructing bridges and culverts and paving with asphaltic concrete or rein.-con., $56,984.

Knox Co., Sect. "M," Columbus-Wooster Rd., 4.02 mi., grading, constructing bridges and culverts and paving with rein.-con., $164,512.

Holmes Co., Sect. "B-1," Millersburg-Wooster Rd., 3.59 mi., grading, constructing bridges and culverts and paving with concrete and gravel, $70,960.

Montgomery Co., Sect. "O-2," Cincinnati-Dayton Rd., 1.34 mi., grading, constructing bridges and culverts and paving with either rein.-con., bituminous macadam or Kentucky rock asphalt, $49,756.

Sect. "O-1," Cincinnati-Dayton Rd., 1.92 mi. grading, constructing bridges and culverts and paving with rein.-con., bituminous macadam or Kentucky rock asphalt, $62,670.

Muskingum Co., Sect. "L-2," Zanesville-Cincinnati Rd., .445 mi., grading, constructing bridges and culverts and paving with bituminous macadam, $16,487.

Pike Co., Sect. "L-1," Columbus-Portsmouth Rd., 1 mi. grading, constructing bridges and culverts and paving with concrete, $31,294.

Wayne Co., Sect. "E," Cleveland-Wooster Rd., 5 mi., grading, constructing bridges and culverts and paving with monolithic brick, concrete or bituminous macadam, $144,412.

Sect. "A," Ashland-Wooster Rd., 6.72 mi., grading, constructing bridges and culverts and paving with concrete or monolithic brick, $203,321.

Sect. "M-1," Mansfield-Wooster Rd., 1.23 mi., grading, constructing bridges and culverts and paving with concrete, monolithic brick or bituminous macadam, $34,935.

O., Toledo—Until Mar. 28, by Comrs. Lucas Co., grading and paving with 2 course waterbound macadam, 3.2 mi. Grace Rd., 10 ft. wide, 6 in. bottom, 4½ in. top, involving 19,000 sq.yd. waterbound macadam, 12,000 cu.yd. sand and clay excav. 6900 cu.yd. stone, cost $33,552; 1 mi. Jackman Rd., 16 ft. wide, 9675 sq.yd. concrete, 446 sq.yd. hillside block on 5 in. concrete base, 9340 cu.yd. clay excav., $34,621; 2 mi. Sylvania Ave., 16 ft. wide, 19,500 sq.yd. concrete, 6500 cu.yd. sand excav., $46,313; 1.2 mi. Upton Ave., 16 ft. wide, 12,000 sq.yd. concrete vitr. brick on 4 in. concrete base, 11,000 cu.yd. clay excav., cost, monolithic brick, $47,588, concrete, $35,468; 1.63 mi. Stickney Ave., 14 ft. wide, 13,380 sq.yd. waterbound macadam; 4407 cu.yd. clay excav., 5760 cu.yd. stone, $23,363; 3.56 mi. Dorr St., 18 ft. wide, 39,360 sq.yd. concrete, 7000 cu.yd. clay excav., $97,025; 1500 ft. Central Grove Ave., 27 ft. wide, 4820 sq.yd. concrete or vitr. brick on 6 in. concrete base, 3122 lin.ft. stone curbing, 3706 cu.yd. clay excav., brick, $22,513, concrete, $16,065. C. L. Rood, co. engr.

O. Youngstown—Until Mar. 25, by city paving Hampton Court, East Princeton and Parkview Aves., Parnell and Fruit Sts. About $15,000. F. M. Lillie, city engr.

O., Youngstown—Until Mar. 31, by Comrs. Mahoning Co., grading and paving 4101 ft. Villa Marie Rd. and 2798 ft. Lowellville Hubbard Rd., in Cortsville Twps., 12 ft. wide, waterbound macadam. About $10,000. E. Smith, co. engr.

Indiana—By Bd. Co. Comrs. building roads in following counties:

Apr. 8, Warrick Co., Boonville, building road in Ohio Twp. W. A. Campbell, co. aud.

Howard Co., Kokomo, free gravel roads in Liberty, Center, Howard, Clay and Ervin Twps. W. L. Benson, co. aud.

Porter Co., Valparaiso, gravel roads, in Washington and Westchester Twp. B. H. Kinne, aud.

Clinton Co., Frankfort, concrete road, 10,532 ft. long, Sugar Creek Twp. E. Spray, aud.

Grant Co., Marion, crushed stone road in Van Buren Twp. M. McRae, aud.

Gibson Co., Princeton, gravel roads in Union and White River Twps. J. H. Armstrong, aud.

Apr. 10—Jennings and Decatur Counties, Vernon, crushed stone road on line between Jackson Twp. Decatur Co. and Geneva Twp., Jennings Co. E. Bemish, aud.

Clay Co., Brazil, gravel road on Clay-Putnam Co. line. W. E. Parrish, aud.

Ill., Danville—Until Mar. 27, by J. R. Moore, clk. Vermilion Co., grading, shaping earth shoulders, constructing, etc. concrete and brick roads, 10 ft wide with 3 ft. of macadam or gravel shoulders, concrete, advertised in this issue Noted Jan. 9.

Ill., Wheaton—Until Mar. 28, by Dupage Co., building 9115 ft. 12th St., concrete, 18 ft wide, involving 18,310 sq.yd. concrete, 990 cu.yd. excav., 240 cu.yd. concrete in culverts and bridges. About $40,432. E. L. Gates, Wheaton, co. supt. highways.

Minn., Wheaton—Until Mar. 25, by O. M. Anderson, co. aud., building Rds. No. 1, 2, 3 and 5, involving 4800 cu.yd. gravel and 55,294 cu.yd. earthwork.

South Dakota—Until Apr. 5, by State Highway Comn., at Co. Auditors Office, Belle Fourche, building 11.8 mi. Belle Fourche-Alzada Rd., 36 ft. wide, in Butte Co. Work involves 54,500 cu.yd. earth excav., culverts, etc. About $31,000. Noted Feb. 27.

N. D., Center—Until Apr. 9, by Comrs. Oliver Co. grading and building 9.39 mi. State Aid Project No. 3372, 36 ft. wide. About $11,000. W. H. Robinson, Bismarck, engr.

N. D., Grafton—Until Mar. 24, by city, paving 19,500 sq.yd. various streets. Plans include resetting existing stone curbs, building necessary circular concrete curbing, catch basins and inlet pipes, etc. J. H. Johnson, city aud.

N. D., Jamestown—Until Apr. 11, by Comrs. Stutsman Co. grading and building culverts on 25.9 mi. Federal Aid Project No. 24, 36 ft. wide. About $60,000. W. H. Robinson, Bismarck, engr.

Mont., Billings—Until Apr. 15, by city, paving 16,000 sq.yd. Broadwater Ave., Dist. 167. About $56,000. E. M. Sneckenberger, city engr.

Mont., Billings—Until Apr. 1, by city, paving 9500 sq.yd. North 31st St., Dist. 166. About $38,000. E. M. Sneckenberger, city engr.

Mo., Kansas City—Until Apr. 1, by city grading Chestnut St. between Lexington and Guinotte Aves. for proposed Chestnut Ave. trafficway; also building bridge over north end of old lake in North Terrace Park. R. H. Waddell, acting engr.

Mo., St. Louis—Until Apr. 15, by Bd. Pub. Serv., improving 808 ft. Lafayette St. refined asphalt and granite curb., cost $15,000; 810 ft. Slevin St., vitr. brick, $12,450; 1295 ft. Thelka St. asphalt, $22,[illegible]. W. W. Horner, city engr.

Utah—Until Mar. 25, by State Rd. Comn., Capitol, Salt Lake City, building 8500 ft. road from Centerville to Farmington, 18 ft. wide, concrete or bitulithic, cost $30,000; 17,233 ft. road from Sunset to Clearfield, 18 ft. wide, concrete or bitulithic, $70,000; 15,587 ft. road from Kaysville to Layton, 18 ft. wide, concrete or bitulithic, $60,000. All roads in Davis Co. I. R. Browning, engr.

Utah—Until Apr. 1, by State Rd. Comn., Capitol, Salt Lake City, building 15 mi. road from Midvale to Lehi, Salt Lake and Utah Counties, 18 ft. wide, concrete or bitulithic, cost $300,000; 5 mi. road, from east to 33rd South, Salt Lake Co., concrete or bitulithic, $100,000. I. R. Browning, state rd. engr.

Wash., Mt. Vernon—Until Apr. 8, by Comrs. Skagit Co., grading and paving road from Sedro Woolle to Skagit River bridge involving 2992 sq.yd. concrete. R. W. McInstry, co. engr.

Cal., San Jose—Until Apr. 7, by Bd. Supervs., improving Santa Clara and Alviso Rd., Dist. No. 4; White Rd., Dist. 2 and 3, Berryessa and Gish Rds., Dist. 3.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., New York—H. Bruckner, pres. Bronx Boro. received bids Mar. 18, regulating, grading, curbing, building sidewalks, crosswalks, approaches, etc., on Adams St. from Morris Park Ave. to New York, New Haven & Hartford R.R., Benson St. from Frisby to Lane Aves., Tacoma St. from St. Lawrence to Beach Aves., from N. Di Menna, 618 East Fordham Rd., $33,016; repaving with granite block on concrete foundation, roadway of Park Ave., E., from Claremont Pkway. to East Tremont Ave., paving with bituminous, 203rd St. from Webster Ave. to New York and Harlem R.R., granite blocks on sand foundation roadway of Jackson Ave. from Southern Blvd. to East 138th Sts., from Asphalt Constr. Co., 2197 Madison Ave., type B, $94,655; Burnside Contr. Co., 270 Burnside Ave., type A, $87,582. Noted Mar. 13.

N. J., Bedminister—Town received bids macadamizing Gladstone Rd. from W. R. Moore, Bedminister, $28,893; Smith & Speer, Morristown, $34,220; Gray Constr. Co., Morristown, $36,089.

★**N. J., Kearney**—Town let contract repairing Passaic Ave., to Maher & McNichols, Passaic Ave. About $15,000.

★**Maryland**—State Rds. Comn., 601 Garrett Bldg., Baltimore, let contract grading 19,000 sq.yd. Ferry Bar, foot of Light St. to elevation of mean low tide, to distance of 500 ft. from end of old Light St. bridge to H. O. Firor, 1707 West Pratt St., Baltimore, $0.084 per cu.yd. Total cost, $15,960. Noted Mar. 6.

Ohio—State Highway Comn., Capitol, Columbus, let contract building roads in following counties:

Butler Co., Sect. "A-1," Eaton-Middletown Rd., .625 mi., grading roadway, constructing inlets and paving with brick, to J. Hennessey, Piqua, $35,491.

Carroll Co., Sect. "G," Canton-Steubenville Rd., 2.34 mi., grading roadway, constructing bridges and culverts and paving with waterbound macadam to P. Dieffenbacher & Sons Co., Massillon, $39,998.

Clermont Co., Sect. "K-1," Cincinnati-Chillicothe Rd., 2.04 mi., grading roadway, constructing bridges and culverts and paving with waterbound macadam, to C. L. Wright, Cincinnati, $27,611.

Fayette Co., Sect. "K," Springfield-Washington Rd., grading roadway, constructing bridges and culverts and paving with waterbound macadam, to Brewer & Brewer Sons, Chillicothe, $26,190.

Lake Co., Sect. "B-2," Euclid-Chardon Rd., 2.25 mi., grading roadway, constructing bridges and culverts and paving with concrete, to L. Garrett Constr. Co., Cleveland, $48,010.

Mahoning Co., Sect. "N-1," North Lima-East Palestine Rd., 1.67 mi., grading roadway, constructing bridges and culverts and paving with waterbound macadam to L. T. Fletcher Co., Kent, $37,470.

Marion Co., Sect. "I," Marion-Upper Sandusky Rd., 5.13 mi., grading roadway, constructing bridges and culverts and paving with waterbound macadam, to L. L. Aller, La Rue, $84,652.

Sect. "G," Marion-Galion Rd., 1.5 mi., grading roadway, constructing bridges and culverts and paving with waterbound macadam, to L. L. Aller, La Rue, $24,924.

Streets and Roads (Continued)

Muskingum Co., Sect. "M-2," Zanesville-Dresden Rd., .596 mi., grading roadway, constructing bridges and culverts and paving with concrete, to Dunsweiller Constr. Co., 4 Richards Blk., Zanesville. $16,393.

Vinton Co., Sect. "J-2," Chillicothe-McArthur Rd., 1.4 mi., grading roadway, constructing bridges and culverts and paving with concrete, to W. C. Brown, Linden, $43,740.

Clinton Co., Sect. "A." Wilmington-Xenia Rd., 3.93 mi., resurfacing with 5 in. course waterbound macadam, to Lunsford & Lunsford, Findlay, $27,402. Noted Mar. 6.

★O., Cincinnati—Comrs. Hamilton Co. let contract to R. E. Cash, 110 Lincoln Inn, improving Cleves and Warsaw Pike, cost $23,960; improving Hillside Ave. $8900, to H. Westerman, Mt. Healthy, O., resurfacing Blue Rock Pike from Springdale Pike to Colerain Pike, $13,860. Noted Feb. 20.

O., Cleveland—City received bids improving

(a) Champion Ave., involving 1140 cu.yd. excav., 20,450 sq.ft. 4 in. brick pavement on 6 in. concrete foundation, 1630 ft. 5 in. Berea stone curbing, etc.;

(b) Ignatius Ave., 27,830 sq.ft. 4 in. brick on 6 in. concrete foundation;

(c) Remus Court, 7064 sq. ft. 5 in. brick block pavement and 400 cu.yd. excav.;

(d) Southerly Dist., 53,000 sq.ft. 2½ in., 2500 sq.ft. 4 in. stone flagging;

(e) Northerly Dist., 36,000 sq.ft. cement, 550 sq. ft. 4 in. stone sidewalks;

(f) Northerly Sect. 40,550 sq.ft. 3 in., 250 sq.ft. 2½ in. and 2600 sq.ft. 4 in. stone flagging;

(g) Joan Ave., 25,585 sq.ft. 4 in. brick pavement on 6 in. concrete foundation, 1865 ft. 5 in. Berea stone curbing, etc.;

(h) Southerly Dist., 24,000 sq.ft. 6 in. cement sidewalk, etc.;

(i) Westerly Dist., 33,600 sq.ft. 2½ and 2700 sq.ft. 4 in. stone flagging;

(j) Westerly Dist., 29,000 sq.ft. 6 in. cement and 3200 sq.ft. 2½ in. stone sidewalks;

(k) Seville Ave., 3120 sq.ft. excav., 900 sq.ft. brick and 200 sq.ft. 6 in. wood block pavement;

(l) Trivoli Court, 125 cu.yd. excav. and 17,180 sq.ft. brick pavement;

(m) Hessler Rd., 225 cu.yd. excav., 5166 sq.ft. 6 in. concrete foundation, 574 sq.ft. 4 in. wood block pavement, 590 ft. 5 in. Berea stone curbing, etc.;

(n) Bessemer Ave., 8570 cu.yd. excav., 98,400 sq.ft. 5 in. brick pavement on 6 in. concrete foundation and 5760 ft. stone curbing from

Roehl Bros., Clark and West 25th St., (a) $13,251; (b) $18,353; (c) $3243; (g) $15,992; (n) $72,127;

Baldwin Bros., 506 Rose Bldg., (a) $13,769; (b) $19,051; (c) $3378; (g) $16,587; (k) $1543; (l) $6277; (m) $5401;

Rieley Bros., 348 Arcade, (a) $14,017; (c) $3644; (k) $1509; (m) $5382; (n) $71,329;

McHugh Bros., 527 Society for Savings Bldg., (b) $18,463; (g) $16,257; (n) $68,210;

Ohio Quarries Co., 1306 Citizens Bldg., (d) $15,273; (f) $12,638; (i) $11,208;

Cleveland Stone Co., 1836 Euclid Ave., (d) $16,035; (f) $13,279; (i) $11,950;

P. De Santis, 603 Republic Bldg., (e) $9856;

Schmeller & Franz, (e) $11,284; (h) $6741; (j) $7682;

Masters & Mullen, 602 Electric Bldg., (e) $12,173; (h) $7623;

M. P. Platten, 2013 Columbus Rd., (h) $8320; (j) $9041.

Garland Bros., 603 Republic Bldg., (j) $10981;

A. M. Peppa, (l) $6250;

Enterprise Constr. Co., (l) $6284;

Bently Bros., 403 Electric Bldg., (m) $5292.

★O., Wauseon—Comrs. Fulton Co. let contract paving, grading and draining and building bridges on 3.64 mi. Sect. G, Wauseon-Morenci Rd., and .51 mi. Sect. C.-1, Swanton-Metamora Rd., waterbound macadam, to Thomas & Burns, Stryker, $45,277 and $6346 respectively; 5 mi. Sect. O, Toledo-Wauseon Rd., waterbound macadam, to Zeller & Drum, Swanton, $92,108. Noted Mar. 6.

Mich., Detroit—Dept. Pub. Wks. received bids paving (a) "T" alley between Dubolse and Chene Sts., Lyman and Milwaukee Aves.,

(b) All alleys between Linwood and La Mothe Aves., La Salle Blvd. and La Salle Gardens south;

(c) Alley east and west between Beechwood, Grand River, Spokane and Maplewood Aves.;

(d) All alleys between 14th St., Wabash, Kirby and Hudson Aves.;

(e) Alleys north and south, east and west, east of Chene, Grandy, Piquette and Trombley Aves.;

(f) Alleys between Trumbull, Commonwealth and Putnam Aves.;

(g) Alley north and south between Vinewood Ave., West Grand Blvd., East St. and Michigan Ave.;

(h) Alley between Hamilton, Gladstone and Hazelwood Aves. and 3rd St.;

(i) Alley between 15th, 14th, Poplar and Buchanan Sts.;

(j) Alley between Commonwealth, Trumbull, Hudson and Stanley Aves.;

(k) Alley between Cameron and Richmond Aves. from

R. J. Powelson Co., 1577 Iroquois Ave., (a) $7826; (e) $3163; (h) $4726.

Otis Cement Constr. Co., 806 Hammond Bldg., (a) $7497; (b) $5371; (c) $4017; (d) $3754; (e) $3094; (f) $2313; (g) $5824; (h) $4800; (i) $3690; (j) $2873. (k) $2086.

Talbot Co., 400 Penobscot Bldg., (a) $7641; (b) $5371; (c) $4167; (d) $3750; (e) $3136; (f) $2327; (g) $5863; (h) $4977; (i) $3621; (j) $2819; (k) $2202.

Liberty Constr. Co., Penobscot Bldg., (b) $5360; (c) $4076.

Lennane & McIlvenna, Union Trust Bldg., (d) $3656; (f) $2294; (i) $3594; (j) $2780.

R. Porath, 1131 McKinley Ave., (g) $5800. Noted Feb. 20.

Mich., Detroit—Dept. Pub. Wks. let contract paving (a) St. Aubin Ave.; (b) Blaine Ave.; (c) "T" alley between 2nd, Woodward, Bethune and Pallister Aves.; (d) alley between Wilson, Byron, Hazelwood and Taylor Aves.; east and west alley between 12th St., Holden Ave., Ferry Park and West Grant Blvd.; (f) north and south between Forest Ave., Hancock St. and west of Woodward Ave.; (g) alley between Hamilton and Seward Aves. and 3rd St. and Virginia Park; (h) alley between 3rd and 2nd Sts., Glynn Court and Calvert Ave.; (i) alley between Brush St., Owen, Oakland and Josephine Aves.; (j) "L" alley between Byron, Hamilton, Taylor and Clairmont Aves.; (k) alley between 3rd, 2nd, Colburn and Antoinette Sts.; (l) alley between Orleans and Dequindre Sts. and Lafayette and Monroe Aves.; (m) "L" alley between Vinewood, Taft, Scovel and Grand River Aves.; (n) alley between Sheridan, Townsend, Kerchval and Waterloo Aves.; (o) alley between Beechwood, Firwood, Seebaldt and Allendale Aves.; (p) alley between Wabash Ave, Magnolia, Linden and 14th Sts.; (q) alley between Ironwood, Beechwood, Oregon and Vancouver Aves.; (r) alley between Commonwealth, Trumbull, Calumet and Canfield Aves.; (s) Delmar Ave.; (t) Laura St.; (u) Elsa Ave.; (v) Burnet Ave.; (w) David Ave.; (x) Linwood Ave., to

Detroit Asphalt Paving Co., 20 McGraw Bldg., (a) $21,638; (s) $9795; (t) $9685; (u) $9130; (v) $7846; (w) $5905.

W. B. Brady Constr. Co., 1972 Grand River Ave., (b) $16,574.

Talbot Co., Penobscot Bldg., (c) $5532; (g) $4697; (n)) $4988.

Oakwood Constr. Co., Penobscot Bldg., (d) $4724; (e) $2999.

Lennane Bros., Union Trust Bldg., (f) $1953.

R. J. Powelson Co., 1577 Iroquois Ave., (h) $4623; (p) $3453; (r) $1679.

Otis Cement Constr. Co., 806 Hammond Bldg., (i) $4449; (j) $3145; (k) $2708; (l) $1968; (m) $5018; (q) $2827.

E. Meredith & Co., 145 Harper Ave., (o) $5491.

Cleveland Trinidad Paving Co., 2940 Woodward Ave., (x) $49,364. Noted Mar. 13.

BARGE CANAL WORK—NEW YORK

Contract No. 190

Bids were received by Lewis Nixon supt. pub. wks., Capitol, Albany, for completing improvement of canal from King's Bend to Lehigh Valley R.R. crossing at Rochester, from (A) Empire Eng. Co., 60 Church St., New York City; (B) J. W. Holler, Ft. Edward; (C) Amer. Pipe & Constr. Co., 112 North Broad St., Phila., Pa. The unit bids were as follows:

	A	B	C
1 Coffer-dams, pumping, bailing and draining (lump sum)	$2,500.00	$2,100.00	$2,100.00
61,000 cu.yd. excavation	1.36	1.37	1.60
5 M. Ft. B.M. sheeting and bracing	120.00	90.00	100.00
20,000 cu.yd. forming embankment	.20	.17	.18
620 cu.yd. lining	2.70	2.25	2.25
640 lin.ft. foundation piles	.78	.67	.75
875 cu.yd. second-class concrete	15.00	12.47	13.00
420 lin.ft. 12-in. vitrified pipe, laid	1.00	.87	.85
52,400 cu.yd. wash wall	2.58	2.67	2.45
5 cu.ft. chipping concrete	6.00	5.00	5.00
110 lb. expanded metal	.10	.10	.10
1100 lin. ft. wooden fence	.75	.70	.75
1000 lin. ft. raising, aligning and painting existing wooden fence	.36	.30	.30
Placing and adjusting 3 steel ladders	3.60	3.00	3.00
Resetting steel tracks at guard lock (lump sum)	312.00	260.00	300.00
Furnishing and setting bench mark at guard lock (lump sum)	12.00	12.00	12.00
Clearing out grooves, stop log recesses, guard lock (lump sum)	18.00	15.00	15.00
Repairing block No. 19, south wall, guard lock (lump sum)	90.00	75.00	75.00
Repairing guard lock sill (lump sum)	42.00	35.00	35.00
Removing timber approaches, Clinton Ave. bridge (lump sum)	60.00	60.00	60.00
Maintaining highway traffic (lump sum)	200.00	200.00	200.00
Storehouse (lump sum)	2,250.00	2,250.00	2,500.00
Extended totals	$245,191	$246,550	$250,154

★Wis., River Falls—City let contract paving, grading and curbing 4 blocks Main St., to Johnson & Drake, Minneapolis, Minn., $30,000. Noted Dec. 12.

★Ia., Tama—City let contract paving and grading about 65 blocks, bitulithic, to Ford Paving Co., 208-2nd Ave., Cedar Rapids.

★Minn., Alexandria—Comrs. Douglas Co. let contract building Federal Aid Project No. 27, to S. Groves & Sons, 105 Kasota Bldg., Minneapolis. Noted Feb. 6.

Mo., Kansas City—City received bids building 23rd St. viaduct, (a) wood block; (b) brick; (c) bitulithic; (d) profit fee, from

Arkansas Bridge Co., Genessee and Kirkwood Aves., (a) $679,560; (b) $667,560; (c) $661,560; (d) $60,000.

A. S. Hecker & Co., 403 Electric Bldg., Cleveland, (a) $681,000; (b) $666,000; (c) $666,000; (d) $50,000.

E. B. Garrettson Co., Columbia, S. C., (a) $681,440; (b) $681,440; (c) $681,440; (d) $61,329.

Missouri Valley Bridge & Iron Co., Pennsylvania Ave., Leavenworth, Kan., (a) $686,000; (b) $671,000; (c) $671,000; (d) $67,000.

Mellon, Stuart, Nelson Co., Oliver Bldg., Pittsburgh, (a) $695,000; (b) $676,000; (c) $670,000; (d) $50,000.

Koss Constr. Co., 1st and Court Sts., Des Moines, Ia., (a) $739,000; (b) $721,000; (c) $724,000; (d) $70,000.

Kunkin-Conkey Constr. Co., 321 Cuyahoga Bldg., Cleveland, (a) $756,861; (b) $743,061; (c) $738,260; (d) $40,000.

J. O. Patterson & Son, Kansas City, (a) $795,000; (b) $780,000; (c) $780,000; (d) $78,000.

A. Guthrie & Co., 366 Jackson St., St. Paul, Minn., (a) $813,300; (b) $789,300; (c) $791,700; (d) $60,000.

Fraser, Brace & Co., 1328 Bway., New York City, (a) $925,406; (b) $913,406; (c) $912,806; (d) $80,000.

Fountain Co., Chicago, (a) $986,214; (b) $968,214; (c) $956,114; (d) $60,000. Noted Jan. 23.

Mo., St. Louis—City received bids paving Newstead Ave., from Indiana Quarries Co., Ry. Exch. Bldg., $23,200; 1480 ft. Bingham Ave., brick, from Heman Constr. Co., Title Guaranty Bldg., $29,090; Union Blvd., asphalt, from F. A. Stiers Constr. Co., 4512 Enright St., $69,800; Kossuth Ave., and 1585 ft. Bingham Ave., asphalt, from Trinidad Asphalt Mfg. Co., Title Guaranty Bldg., $15,600 and $21,778 respectively. Noted Feb. 13.

★Mo., St. Louis—City let contract grading 96,000 cu.yd. Euclid Ave. to A. Manegold, Title Guaranty Bldg., $.209 per sq.yd. Noted Mar. 6.

★Tex., Abilene—Comrs. Taylor Co. let contract building 11.61 mi. gravel surfaced road, State Highway No. 1, from Tye to Trent, including concrete drainage structures, to Sanders Bros., Miami. About $44,000. Noted Feb. 20.

Ariz., Clifton—Bd. Supervs. Greenlee Co. received lowest bid grading 32½ mi. Sects. 1-6 and part of 7, Clifton-Springerville Rd. including culverts and bridges, from Webster & Kerby, Clifton. Noted Feb. 27.

★Ariz., Douglas—See "Bridges."

Streets and Roads (Continued)

Wash., Seattle—Bd. Pub. Wks. received bids Mar. 7, grading ¼ mi. Holyoke Way, et al, 40 ft. wide, from H. Pederson, Alaska Bldg., $16,583; Johnson Constr. & Logging Co., Seattle, $17,492; G. A. Banderet, Bryn Mawr, $19,320. Noted Feb. 20.

Ore., Portland—City received bids from Alaska Plumbing & Heating Co., 413 East Morrison St., building concrete sidewalks and curbs on Ellis Ave., $2885; excavating building concrete sidewalks, curbs, gutter pipe in Richmond St., $2123; S. Simonsen, Portland, building concrete sidewalks, curbs and driveways in East 8th St. from Madrona to Holland Sts., $1381; Warren Constr. Co., Journal Bldg., gravel bitulithic pavement in road of East 38th St. from East Yamhill to Belmont Sts., $1537; M. Hansen & Co., Portland, concrete curbs, sidewalks, driveways, inlets, laying vitr. pipe, etc., in Oswego St. from York to 29th Sts., $1038; concrete sidewalks, curbs, laying vitr. pipe, etc., in Oswego St. from Smith Ave. to Bank St., $6373.

Cal., San Diego—Bd. Supervs., San Diego Co., received bids Mar. 5, relocating and grading two sections highway near Bernardo, from M. D. Goodbody, Amer. Bldg., $12,849; H. G. Fenton, Owl Drug Bldg., $13,400. Noted Feb. 20.

Congress passed Rivers & Harbors bill appropriating following amounts for improvements at points designated below:

Maine—Completing improvement Tenants Harbor, $18,750.

Massachusetts—Completing improvement of Weymouth Fore River, $183,000; Beverly Harbor, $61,500; Pollock Rip Channel, $200,000.

Rhode Island—Completing improvement of Pawtucket River, R. I., $91,160; of Point Judith harbor of refuge, $52,500.

Connecticut—For improveemnt Connecticut River below Hartford, $75,000; Bridgeport Harbor, $111,300; Norwalk Harbor, $88,000; Stamford Harbor, $183,000; Greenwich Harbor, $35,000.

New York—Continuing improvement East River, $4,000,000; Ambrose Channel, Craven Shoal Channel, and Anchorage Channel, New York Harbor, $300,000; Newtown Creek and tributaries, $205,000; continuing improvement and for maintenance Erie Harbor, Penn., Dunkirk and Buffalo Harbors, Black Rock Channel and Tonawanda Harbor, and Niagara River, $156,000; Buffalo Harbor, $171,400; Oswego Harbor, $50,000; Ogdensburg Harbor, $72,000.

New Jersey—For improvement Newark Bay, $105,600; Raritan River, $250,000; Shrewsbury River, $100,000; Hackensack River, $88,000; Delaware River, Penn., N. J., and Del., $1,000,000; Camden Harbor, $71,080.

Pennsylvania—Continuing improvement Schuykill River, $1,000,000; Raccoon Creek, $39,770; Chester River, $3600; Allegheny River, by construction of locks and dams, $1,000,000.

Delaware—For improvement of Mispillion River, $70,400; for improvement to a depth of 12 ft. at mean low water, Inland waterway from Delaware River to Chesapeake Bay Del., and Maryland, $3,000,000.

Maryland—For improvement of the North Fork of Tred Avon River, $19,600; Wicomico River, $17,100.

Virginia—For improvement of Tangier Channel, $16,434; Mattapon River, $7000; Norfolk Harbor and Channels, $1,000,000; Pagan River, $25,000.

North Carolina—Continuing improvement and for maintenance, waterway from Norfolk, Va., to Beaufort Inlet, N. C., $750,000; Newbegun Creek, $5000; Scuppernong River, $31,800; Beaufort Harbor, $15,900; Channel connecting Thoroughfare Bay and Cedar Bay, $9000; Cape Fear River below Wilmington, $498,625; Cape Fear River above Wilmington, $51,000; Northeast River, $25,375.

South Carolina—Completing improvement waterway between Charleston and Winyah Bay, $28,000.

Georgia—Continuing improvement of Savannah Harbor, $260,000; Generals Cut, Co., $1000; Black River, $5000; Brunswick Harbor, $500,000.

Florida—Continuing improvement of Saint Johns River between Jacksonville and the ocean, $125,000; Oklawaha River, $95,000; for improvement between Jacksonville and Palatka, $9000; channel from Tampa Bay to Boca Ceiga Bay, $10,700; Sarasota Bay, $92,000; for the removal of the water hyacinth from the navigable waters in the State of Florida, in so far as it is or may become an obstruction to navigation, $10,000.

Alabama—Continuing improvement and for maintenance Alabama River ,and Coosa River, Ala., and Ga., including the Alabama and Coosa Rivers between Montgomery and Wetumpka, $50,000; Mobile Harbor and Bar, $200,000; Black Warrior, Warrior, and Tombigbee Rivers, $200,000.

Mississippi—Continuing improvement and for maintenance of channels Pascagoula Harbor, through Horn Island Pass, Mississippi Sound, Pascagoula River and Dog River, $100,000; continuing improvement and for maintenance of anchorage basin at Gulfport, and channel therefrom to the anchorage or roadstead at Ship Island, and for the improvement and maintenance of channel at Ship Island Pass, $100,000; maintenance passes at the mouth of the Mississippi River, $1,250,000.

Louisiana—For improvement of Barataria Bay, $32,000; waterway from Mississippi River to Bayou Teche, $100,000; for the removal of the water hyacinth from the navigable waters in Alabama, Mississippi, Louisiana and Texas, in so far as it is or may become an obstruction to navigation, $30,000.

Texas—Continuing improvement Galveston Harbor, by construction of sea-wall extension to protect Galveston Channel, $758,000; Houston Ship Channel, $950,000; waterway from Galveston to Corpus Christi and channel from Pass Cavallo to Port Lavaca, $5000; Freeport Harbor, $100,000; Brazos Island Harbor, $66,000; Beaumont Harbor, $75,000.

Arkansas—Continuing improvement of Ouachita River, Ark., and La., $300,000; for the removal of snags and wrecks from the Mississippi River below the mouth of the Missouri River, and from Old and Atchafalaya Rivers, $50,000.

Minnesota—Continuing improvement and for maintenance Mississippi River from the mouth of the Missouri River to Minneapolis, $500,000; Mississippi River between Saint Paul and Minneapolis, and between Brainerd and Grand Rapids, Mississippi and Leech Rivers, and reservoirs at headwaters of Mississippi River, $10,000; Minneapolis Harbor, $6000; Baudette Harbor and River, $5000.

Kansas—For maintenance and continuing improvement of Missouri River with a view to securing a permanent 6 ft. channel between Kansas City, from the upper end of Quindaro Bend, and the mouth of the river, $400,000.

Tennessee—For improvement of Cumberland River, Tenn., and Ky., above Nashville, $30,000; continuing improvement of Ohio River and for maintenance by open-channel work, $300,000; by the construction of locks and dams with a view to securing a navigable depth of 9 ft., $3,000,000.

Wisconsin—Completing improvement of Duluth-Superior Harbor, Minn. and Wis., $33,000; Keweenaw Waterway at Princess Point, Mich., $135,000; Sturgeon Bay and Lake Michigan Ship Canal, Wis., $33,000.

Illinois—For improvement of Calumet Harbor, $38,170.

Michigan—Completing improvement of Grosse Pointe Channel, Lake Saint Clair, $94,000; Livingstone Channel, Detroit River, $750,000; Alpena Harbor, $67,500.

Ohio—For improvement of Sandusky Harbor, $181,000; Huron Harbor, $34,500; Lorain Harbor, $20,000; Fairport Harbor, $238,500; Ashtabula Harbor, $83,000.

California—For completing the silt-diversion project, Los Angeles Harbor, $580,000; Suisun Bay Channel, $64,500; San Rafael Creek, $27,300; continuing improvement and for maintenace Sacramento, Feather, San Joaquin, and Mokelumne Rivers, and Stockton and Mormon Channels (diverting canals, $222,000.

Oregon—For maintenance and continuing improvement of channel over the bar at Coos Bay, $121,000; Coquille Bar and Harbor, $64,000; Coos Bay, $130,000; Yaquina Bay and Harbor, $100,000.

Washington—Continuing improvement and for maintenance Columbia and lower Willamette Rivers below Vancouver, Wash., and Portland, Ore., and mouth of Columbia River, $595,000; Skamokawa Creek, $1800; Skagit River, $30,000; Anacortes Harbor, $12,000; Port Gamble Harbor, $12,000.

Hawaii—Continuing improvement and for maintenance Honolulu, Kahului, Hilo, and Nawiliwili Harbors, $135,000; Kahului Harbor, $94,300; Nawiliwili Harbor, $250,000.

OFFICIAL PROPOSALS

Bids: March 25.

Sewer Construction

OFFICE OF THE BOARD OF COMMISSIONERS

Nashville, Tenn., March 11, 1919.

Notice is hereby given that sealed proposals will be received at the office of the secretary until 10 o'clock a.m., Tuesday, March 25, 1919, for constructing a circular brick sewer (being a section of Richland creek intercepting sewer) from a point on the east bank of Richland creek about 1215 feet northwest of county road (near old prison pump-house) through the property of Tennessee State Prison farm and private property southeastwardly to a point about 1400 feet southeast of said county road, as per plans and specifications to be seen in the office of the city engineer. A certified check for $1000 or cash equivalent must accompany each bid. Said check or money will be refunded to unsuccessful bidders upon award of contract and to successful bidders when they have made approved bond for the faithful performance of their contract. The right is reserved to reject any and all bids.

By order of the Board of Commissioners.

WM. GUPTON, Mayor.

Attest: J. W. Dashiell, Secretary.

Bids: March 25.

Sewer Construction

OFFICE OF THE BOARD OF COMMISSIONERS

Nashville, Tenn., March 11, 1919.

Notice is hereby given that sealed proposals will be received at the office of the secretary until 10 o'clock a.m., Tuesday, aMrch 25, 1919, for constructing a circular brick sewer (being a section of Browns creek intercepting sewer) through private property and Stanley street from the Cumberland river to a point south of the Tennessee Central Railroad, as per plans and specifications to be seen in the office of the city engineer. A certified check for $1000 or cash equivalent must accompany each bid. Said check or money will be refunded to unsuccessful bidders upon award of contract and to successful bidders when they have made approved bond for the faithful performance of their contract. The right is reserved to reject any and all bids.

By order of the Board of Commissioners.

WM. GUPTON, Mayor.

Attest: J. W. Dashiell, Secretary.